

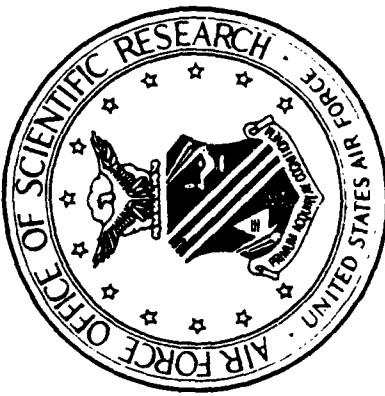
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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
AIR FORCE SYSTEMS COMMAND

AFPSR FILE 002

RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

AD-A214 438



AFPSR - ER - 89 - 1360

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ELECTED
NOV 20 1989
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JULY - SEPTEMBER 1989

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REPORT DOCUMENTATION PAGE

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RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

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OCTOBER 1989

PREPARED BY:
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INTRODUCTION

This Research Proposal Status Report is published quarterly as of March, June, September, and December of each year. It lists all the research proposals received by the Air Force Office of Scientific Research (AFOSR) in the six month period prior to the date of this report. Normally, decisions and actions are made within six months after receiving a research proposal. The action taken (i.e. Initiated, Declined, or Withdrawn) will be listed in this Report. The report is divided into two parts: Part I is the Institution Index which lists the proposals received, alphabetically by institution. Part II is the AFOSR Directorate Index in which the proposals received are listed alphabetically by Directorate and alphabetically by AFOSR Program Manager within the Directorate. Any questions regarding this report, please contact Ms. Debra Tyrrell at (202) 767-4912 or Autovon 297-4912.

PURPOSE

The purpose of the quarterly report is to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Users of the report should read and clearly understand that:

Declined proposals should not necessarily be considered as scientifically unacceptable since many declinations result from a lack of funds or from special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Director of Laboratories, Air Force Systems Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from unsolicited proposals originating from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, i.e., College/University, Company, etc., at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N = Indicates a new research effort.

- R = Indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = Indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATED - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH STAFF DIRECTORY
BOLLING AIR FORCE BASE, DC 20332

CC/CD - OFFICE OF THE DIRECTOR

Commander Col Alan J. Driscoll
Technical Director

5017

NA - DIRECTORATE OF AEROSPACE SCIENCES

	EXT
Director Dr Michael Salkind	4987
Prog Mgr Dr Mitat Birkan	4938
Prog Mgr Dr Leonidas Sakei	4935
Prog Mgr Dr Spencer Wu	6962
Prog Mgr Dr Julian Tishkoff	0465
Prog Mgr Dr James McMichael	4936
Prog Mgr Maj Steven Boyce	6963
Prog Mgr Lt Col George Haritos	0463
Prog Mgr Cap Henry Helin	0471

NL - DIRECTORATE OF LIFE SCIENCES

	EXT
Acting Director Dr William O. Berry	4278
Expert Consultant Dr John Jonides	5021
Prog Mgr Dr Alfred R. Fregly	5021
Prog Mgr Maj T. Jan Cerveny	5021
Prog Mgr John F. Tangney	5021

NC - DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

	EXT
Director Dr. Donald Ball	4960
Prog Mgr Dr. John Wilkes	4960
Prog Mgr Lt Col Larry W. Burgraff	4960
Prog Mgr Lt Col Larry P. Davis	4963
Prog Mgr Dr Donald Ulrich	4963
Prog Mgr Dr Anthony Matuszko	4963
Prog Mgr Dr Francis Wodarczyk	4963

NM - DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

	EXT
Director Dr Charles J. Holland	5025
Prog Mgr Dr Neal Glassman	5026
Prog Mgr Dr Eytan Barouch	4940
Prog Mgr Dr Abraham Waksman	5028
Prog Mgr Dr Arje Nachman	4939

NP - DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCE

	EXT
Director Col Jerry J. Perrizo	4904
Prog Mgr Dr Ralph Kelley	4906
Prog Mgr Dr Robert Barker	5011
Prog Mgr Dr Howard Schlossberg	4906
Prog Mgr Dr. Henry R. Radoski	4906

NE - DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

	EXT
Director Dr Horst R. Wittmann	4984
Dep Director Dr Alan Rosenstein	4933
Prog Mgr Dr Cole Littor	4931
Prog Mgr Lt Col Robert W. Carter, Jr.	4931
Prog Mgr Dr Gerald Witt	4931
Prog Mgr Dr Alan Craig	4931
Prog Mgr Dr Harold Weinstock	4933
Prog Mgr Dr Liselotte Schioler	4933

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Autovon 291 XXXX

PART I

STATUE - LA = ACCEPTED, CO = DECLINED, WI = WITHDRAWN

THREE STYLICATED

ECONOMIC STATISTICS BY NAME

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
CLEMSON UNIVERSITY	YUFGARTIS	STEVEN	W	89-NE-390	SCHICLER	
	ACMIS	WARREN	P	89-NM-668	GLASSMAN	
	ELLISON	MICHAEL	S	89-NC-384	ULRICH	
	GRIJICIC	MICA	A	89-NE-369	ROSENSTEIN	
COLORADO SCHOOL OF MINES	OGLALE	APOO		89-NC-394	ULRICH	
COLORADO STATE UNIVERSITY	REIDLEY	DENNIS	W	89-NE-401	SCHIOLER	
	RAFFORD	DONALD	W	89-NA-404	HARITOS	
ZCL, HI	ZCL, HI	R.		89-NE-338	WEINSTOCK	O
DOCHER	BARBARA			89-NL-295	FREGLY	
GARDNER	DANIEL			89-NL-290	BERRY	
KR-SILS	J.			89-NE-312	WHITE	
NATION	JCHN			89-NP-216	BARKER	
PA PIA	J.			89-NE-409	WEINSTOCK	A
RAI	RISHI			89-NE-313	ROSENSTEIN	A
REARE INC. RESEARCH & DEVELOPMENT INC	LAVELLO	VICTOR		89-NE-316	WEINSTOCK	A
CREDIT UNION	STHMS	SIDNEY	J	89-NL-323	CERVENY	
CARTER CULT COLLEGE	BAKER	IAN		89-NE-367	ROSENSTEIN	
DEPT OF ENERGY - ALBUQUERQUE OPER OFFICE	GEWIN	(CLANL)		89-NE-214	KELLEY	A
CAXTEL UNIVERSITY	APELIAN	RICHARD	A	89-NC-397	ROSENSTEIN	
	DIVARDO	DIRAN	J	89-NC-407	ULRICH	
WAIG	WAIG	N.		89-NA-367	HARITOS	
DUKE UNIVERSITY	ALBERT			89-NA-416	HARITOS	
	JACOBS	TIMOTHY	L	89-NA-421	HARITOS	
	OJCROVIC	RASKO	P	89-NA-402	HARITOS	
	PALMER	RICHARD	A	89-NC-396	ULRICH	
	FAURIE	JEAN-PIERRE		89-NE-351	LITTEN	
MIN	MIN	KWANG	S	89-XO-040	A	
KCARIVA	KCARIVA	DAVIX		89-NM-688	CAVENDER	
FINKBFINGER	FINKBFINGER	HERMAN	L	39-NC-381	NACHMAN	
LIB	LIB	DAVID		89-NC-354	MATUSZKO	
HANEYCHUCK	HANEYCHUCK	TERRY	K	89-NC-418	A	
NASH	NASH	ROBERT	V	89-NM-680	ULRICH	
ELK	ELK	STEPHEN	G	89-NC-660	GLASSMAN	
GURRIS	GURRIS	JAMES	E	89-NA-661	GLASSMAN	
NCNR	NCNR	CHARLES	A	89-NA-427	HELIN	
DE LEVIE	DE LEVIE	AHMED	K	89-NA-362	AMOS	
DE LEVIE	DE LEVIE	RCBERT		89-NE-337	ROSENSTEIN	
CITRAMBNE	CITRAMBNE	RCBERT		89-NE-377	ROSENSTEIN	
WESERFELC	WESERFELC	RICHARD		89-NC-305	FREGLY	
		KURT		89-NE-341	WEINSTOCK	C
FCX	RCNALC			89-NM-692	NACHMAN	
CALPO	CALPO	TIMOTHY	E	89-NE-350	KELLEY	
WHALEN	WHALEN	OCUGLAS	H	89-AP-245	FREGLY	
BAIYUM	BAIYUM	PETFR	H	89-NL-308	HARITOS	
RABOLT	RABOLT	JCHN	H	89-NA-349	ULRICH	
VACCI	VACCI	MCSHE	F	99-NC-417	WAKSMAN	
COLLAR	COLLAR	WAREK	Y	99-NM-678	ROSENSTEIN	
NEWAZ	NEWAZ	GCLAM	H	99-NE-373	HARITOS	
ILLINOIS INSTITUTE OF TECHNOLOGY				99-NA-405		

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	LAST NAME	PROPOSAL	STATUS	PM NAME
INDIANA UNIVERSITY-PURDUE UNIV AT INDIANAPOLIS	SANTIE	JAFAR		SCIAMMARELLA	89-NE-372	A	SCHIOLER
INST. OF ELECTRICAL & ELECTRONICS ENGR,	AFFELABI	CESAR		RASMUSSEN	89-NA-397	A	HARITOS
INSTITUTE FOR PERCEPTION RYOTONO	DARE			CGOLTS	89-NA-377	A	AMOS
INTERNATIONAL NEURAL NETWORK SOCIETY	JEFFREY			WEERTHEIM	89-NE-658	L	BAROUCH
IOWA STATE UNIV CF SCIENCE AND TECH	TIMOTHY			SZL	89-NE-340	J	CRAIG
J. K. RESEARCH	HAROLD			CHLMBLEY	89-NL-292	H	TANGNEY
ACKSVILLE STATE UNIVERSITY	LEONARD			DAVID	89-NE-332	A	GILES
JET PROPULSION LABORATORY	H.			DAYAL	89-NE-389	S	ROSENSTEIN
KANSAS STATE UNIVERSITY	VINAY			MARTIN	89-NM-666	T	BARCUCH
KRALL ASSOCIATES	STEVE			COMBIE	89-NC-355	ULRICH	ULRICH
LA JICLA INSTITUTE	JCAN			SPECTOR	89-NC-415	ULRICH	CERVENY
LAURENCE BERKELEY LABORATORY	JONATHAN			CHLTJIAN	89-NL-321	A	CAVENDER
LAWRENCE LIVERMORE LAB (CALIF UNIV)	JONATHAN			MARDER	89-XO-043	A	CAVENDER
LEHIGH UNIVERSITY	ARA			SRIVASTAVA	89-XO-026	A	CAVENDER
LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	SETH			THAKODR	89-NC-222	L	KELLEY
LOUISIANA STATE UNIVERSITY	SANTOSH			BARGERON	89-NC-353	R	ULRICH
MARquette UNIVERSITY	A.P.			EGETH	89-NP-227	A	KELLEY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	C.B.			SCRENSSEN	89-NE-320	A	GILES
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	HOWARD			KRALL	89-NE-417	A	SCHIOLER
MC GILL UNIVERSITY	CHRISTOPHER			STEFAN	89-NL-289	E	FREGLY
MINNESOTA UNIVERSITY	NICHOLAS			ATTWOOD	89-NC-410	H	ULRICH
MISSOURI STATE UNIVERSITY	VLAUDISLAV			LELING	89-NP-231	A	BARKER
MISSOURI STATE UNIVERSITY	DAVID			WISKES	89-NP-240	A	SCHLOSSBERG
MISSOURI STATE UNIVERSITY	KA-NGC			JOHN	89-NP-225	A	KELLEY
MISSOURI STATE UNIVERSITY				APKADY	89-NP-226	A	KELLEY
MISSOURI STATE UNIVERSITY	CHERYL			CHERYL	89-K-239	A	KELLEY
MISSOURI STATE UNIVERSITY	F.			F.	89-NA-407	A	HARITOS
MISSOURI STATE UNIVERSITY	HOWARD			DOUGLASS	89-NC-316	J	FREGLY
MISSOURI STATE UNIVERSITY	DONAL			GUTOWITZ	89-NC-339	F	DAVIS
MISSOURI STATE UNIVERSITY	SINEX			SINEX	89-NE-321	G	GILES
MISSOURI STATE UNIVERSITY	DOUGLASS			DOUGLASS	89-NL-298	G	TANGNEY
MISSOURI STATE UNIVERSITY	GRIFFIN			DOUGLASS	89-NC-346	H	DAVIS
MISSOURI STATE UNIVERSITY	JONES			GREGORY	89-NF-366	L	SCHIOLER
MISSOURI STATE UNIVERSITY	TEMPLE			BUSH	89-NF-715	S	WAKSMAN
MISSOURI STATE UNIVERSITY	VOYARIJIS			DOYLE	89-NE-400	A	SCHIOLER
MISSOURI STATE UNIVERSITY	GAUSTELLO			STEPHEN	89-NA-368	Z	HARITOS
MISSOURI STATE UNIVERSITY	DRESSELHAUS			MILDRED	89-NL-300	J	FREGLY
MISSOURI STATE UNIVERSITY				GENE	89-XO-033	A	CAVENDER
MISSOURI STATE UNIVERSITY	EPSTEIN			ALAN	89-NA-359	H	HELIN
MISSOURI STATE UNIVERSITY	PREUNO			ROBERT	89-NM-692	H	GLASSMAN
MISSOURI STATE UNIVERSITY	HASTINGS			DANIEL	89-NA-425	E	BIRKAN
MISSOURI STATE UNIVERSITY	JANNOPCULOS			JOHN	89-NF-331	D	LITTON
MISSOURI STATE UNIVERSITY	KING			RCBERT	89-NP-233	H	PERRIZO
MISSOURI STATE UNIVERSITY	LEE			MIN-CHANG	89-NP-242	C	BARKER
MISSOURI STATE UNIVERSITY	LI			VICTOR	89-N-373	WU	WU
MISSOURI STATE UNIVERSITY	MCCUNE			JAMES	89-NA-356	A	HELIN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM IAMF
CORLIN	JAMES	B		89-NH-703	A	GASSMAN
TECRUM	PAUL	H		89-NE-352	A	WEINSTOCK
THOMPSON	CARL	V		89-XO-035	A	CAVENDER
WCLFE	JEREMY	H		89-NE-349		LITTON
WUTTMAN	RICHARD	J		89-NL-304		FREGLY
GALLANCE	JCHN	B		89-NE-324		PERRY
MATERIALS RESEARCH SOCIETY				89-NE-346		LITTON
CLARK	DAVID	E		89-NE-347		LITTON
KANAOZICIS	MERCOURI	G		89-NC-421		ULRICH
KHALIL	HASSAN	K		89-NC-387		ULRICH
MANDELL	JOHN	F		89-NM-671	D	ULWLEY
OUTLAW	R			89-NA-415		ULWLEY
AJELLO	JOSEPH	A		89-NC-344	A	ULWLEY
WANDER	STEVE	H		89-NP-224	A	ULWLEY
MILBURN	G. H. W.	S		89-NA-343	A	ULRICH
LCN3	ROBERT			89-NC-321		ULRICH
MILES	VERNON			89-NP-237		PERRIZO
VAN CCTT	HAROLD			89-NP-239		PERRIZO
HERRIN,	JACKSON	R		89-NC-042	A	ROBISON
BCGGS	PAUL	T		89-NL-320	A	ROBISON
HASTIE	JOHN			89-NA-357	A	ROBISON
JULIENNE	PAUL			89-NM-674	A	MCMICHAEL
LUCATORTO	THOMAS			89-NC-358		GLASSMAN
CHANDRASEKHPARA	H			89-NP-220	A	SCHICLER
NGAI	K.			89-NP-212	A	KELLEY
SZL	HAROLD	L		89-NA-426	A	KELLEY
GREBEL	HAIM			89-NC-354	D	KELLEY
LEL	MING			89-NE-333		MELIN
A. MISRA	DURGAMADHAB	MIS		89-NC-406		ULRICH
RUEIN	EMANUEL	R		89-NA-365	C	AMOS
CORCAGIO	JAMES			89-NE-407		ROSENSTEIN
MCRALE	ANNA			89-NL-301		BERRY
ALFANO	ROBERT			89-NE-398		ROSENSTEIN
KCN	RCBERTY	V		89-NE-407		SCHICLER
NIXON	DAVID			89-NE-382		WITT
SALAMI	M. RESZ			89-NE-361		NACHMAN
KHEYFETS	ARKADY			89-NC-686	A	SAKELL
O GRACY	PETER			89-NA-390		ULRICH
BOUDJOK	PHILIP			89-NC-403		ULRICH
YAZDANI	FRANK			89-NA-389		MARITOS
DEVANEY	ANTHONY			89-NC-405		NACHMAN
NOVAK	WELVILLE			89-XO-036	A	CAVENDER
NC STATE UNIVERSITY	PCNALC			89-NA-381		CROWLEY
NORTH CAROLINA STATE UNIVERSITY	FREDERICK			89-NC-403		CROWLEY
NORTH DAKOTA STATE UNIVERSITY	CHARLES			89-NA-389		ULRICH
NORTHEASTERN UNIVERSITY	CHARLES			89-NA-683		ULRICH
NOVAK	WILLIAMS			89-NE-397		ULRICH
BLCOM	BLCOM			89-NE-309		ULRICH
SPANGLER	SPANGLER			89-NC-388		ULRICH
CHARLES				89-NC-367		ULRICH
				89-NC-351		ULRICH

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	DM NAME
KENTUCKY UNIVERSITY	ZCENEK	P		89-NA-420	C	HAPITOS
BELITSCHKO	PROFESSOR	T		39-NA-354	C	AMOS
HODDAC	ABRAHAM	H		89-N-M-712	C	CROWLEY
MARKS	TCBIN	J		89-NC-319	A	DAVIS
OFFICE OF NAVAL RESEARCH	CLIFF			89-N-E-327	A	GILES
O'HARE	JCHN	J		89-N-L-315		TANGNEY
CZEKA,	CORINNA	L		89-NC-397		ULPICH
LEEN	TCDD			89-N-E-334		GILES
GLAZER	MIKE			89-N-C-323		ULRICH
WARREN, JR	WALTER	R		89-NC-329	A	WODARCZYK
AGRAWAL	DINESH	K		89-NC-331		U. ZICH
BARLOW	JESSE			89-N-M-702		HOLLAND
BIANCONI	PATRICIA	A		89-NC-309		MATUSZK
HAWN	H			89-NA-365		HARITOS
PCATHEN	ALEX	T		89-N-M-713		NACHMAN
SARTAVICCA	DOMENIC	A		89-NA-355	A	TISHKOFF
SANTORO	ROBERT	J		89-NA-383	A	
LEUNG	PUI-TAK	A		39-N-E-353	A	TISHKOFF
ORSZAG	STEVEN			89-N-A-393	A	MCMICHAEL
RATITZ	MERSCHEL			89-NC-325	A	DAVIS
ATALLAH	MIKHAIL			89-N-M-682	A	GASSMAN
NWCKAH	OSITA			89-NA-373		AMOS
PRCCTCR	RCBERT			89-NL-306		FREGLY
RICE	JCHN	R		89-N-W-709		HOLLAND
PAYDAP	NASSER			39-NA-370	C	
VITERBI	ANDREW	J		89-N-M-698	A	
COLE	JULIAN	D		89-N-M-657	A	NACHMAN
KRAUSE	SONJA			99-NC-352	D	DAVIS
MC CONALC	JOHN	F		39-NC-339		
MITCHELL	JCHN	E		89-N-W-708	C	AMOS
WOZNY	MICHAEL	J		89-NA-382		CROWLEY
ARMENIADES	CONSTANTINE	D		89-NC-379		ULRICH
MARGRAYE	JOHN	L		89-NC-391		ROSENSTEIN
SALERREY	ROLANC			89-N-C-371		
HEYES	D. M.			89-N-C-320		DAVIS
LEBOWITZ	JOEL	L		89-N-P-210	A	GARKER
MURDOCCA	MILES			89-N-E-322		GILES
PAE	K			99-N-C-366		ULRICH
ECKSTROM	DONALD	D		89-NA-387	A	BASHER
HUESTIS	DAVID	L		89-NC-317	A	
MACDONALD	D			89-NC-416		WILKES
NAGAYA	SUBHASH	C		89-NE-343		ROSENSTEIN
POLOHO	BRUCE	G		89-NC-311		WODARCZYK
SLANGER	TON			89-N-M-689	A	GASSMAN
BLICK	I.			39-NC-414	A	CRAIG
HU	C.L.J.			89-N-E-385	A	ROSENSTEIN
MIFSHAMS	A. REZA			99-NA-360	A	SAKELL
BRADSHAW	PETER					
SOCIETY FOR INDUSTRIAL & APPLIED MATH						
SOUTHERN ILLINOIS UNIVERSITY						
SOUTHERN UNIV.--DEPT. OF MECHANICAL ENG.						
STANFORD UNIVERSITY						

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
ARYSON	ARTHUR			89-NA-376	AMOS	
CHAPMAN	DEAN	R		89-NA-391	SAKELL	
FEJER	MARTIN	M		89-NP-218	SCHLOSSBER	
HARRIS	STEPHEN	E		89-NP-228	SCHLOSSBER	
KAILATH	THOMAS			89-NM-679	A	NACHMAN
ROBERTS	LEONARD			89-NA-386	A	HELIN
RCSS	JCHN			89-NC-358	A	CAVIS
L. CHUNG	DEBORAH	O		89-NE-406	A	SCHIOLER
ASHGRIZ	NASSER			89-NA-369	D	TISHKOFF
CHAKI	TARUN	K		89-NE-364	D	ROSENSTEIN
CHEN	Y	M		89-NM-649	D	NACHMAN
CHIANG	FL-PEN			89-NA-401	D	HARITOS
GECRGE	THOMAS	F		89-NC-332	D	DAVIS
HARRIS	STEWART	M		89-NE-362	D	ROSENSTEIN
KUSHNER	ALAN	S		89-NA-419	A	HARITOS
PITMAN	E. BRUCE			89-NM-652	A	NACHMAN
PRASAC	PARAS	N		89-NC-327	A	DAVIS
DAVIS	ELIZABETH			89-NL-310	A	TANGNEY
WHITEAKER	EDWARD	A		89-NE-404	A	SCHIOLER
OCKEEN	PETER	A		89-NE-370	A	ROSENSTEIN
LEVY	ALAN	J		89-NA-419	A	HARITOS
LIL	HAJ-WEN			89-NA-408	A	HARITOS
MANDEL	JAMES	A		89-NA-400	A	DAVIS
SPENCER	JAMES	T		89-NE-384	A	C. A. ENDER
WEINER	DONALD	D		89-NE-392	A	CAVENADER
				89-NC-030	A	C. A. ENDER
STEVENS INSTITUTE OF NEW YORK - RSCH FDN	KARL			89-XO-046	A	C. A. ENDER
SYRACUSE UNIVERSITY	DAVID			89-NA-710	A	C. A. ENDER
TEMPLE UNIVERSITY SCHOOL OF MEDICINE	DARRELL	E.		99-NM-704	A	C. A. ENDER
TEMESSEE TECHNICAL UNIVERSITY				89-NE-374	A	C. A. ENDER
TEXAS A AND M RESEARCH FOUNDATION	M			89-NA-394	A	C. A. ENDER
JAYASURIYA	SUMADA			89-NA-395	A	C. A. ENDER
JUNKINS	SUDHADA			89-NA-352	A	C. A. ENDER
MARTIN	JOHN			89-NA-363	A	C. A. ENDER
	CHARLES	R		89-NC-357	A	C. A. ENDER
TECHNISCHE UNIVERSITÄT OF GRAZ	ZERDA			89-NC-363	A	C. A. ENDER
TEMPLE UNIVERSITY SCHOOL OF MEDICINE	ZIEHER			89-NC-369	A	C. A. ENDER
THEORETICAL PHYSICAL CHEMISTRY INST	NICOLAIODES	KLAUS		89-NP-219	A	C. A. ENDER
TUFTS UNIVERSITY	C. A.			89-NC-362	D	C. A. ENDER
TEXAS CHRISTIAN UNIVERSITY	ACELSON	BETH		89-NM-685	C	C. A. ENDER
TEXAS TECH UNIVERSITY	RYCER, JR.	DANIEL		89-NE-399	F	C. A. ENDER
THEORETICAL PHYSICAL CHEMISTRY INST	NUKHO	NAKHO		89-NC-375	F	C. A. ENDER
TUFTS UNIVERSITY	HERSHMAT			89-NC-388	F	C. A. ENDER
ULTRASYNTHETIC SYSTEMS INC	K			89-NC-326	L	C. A. ENDER
ULTRAV. OF ALABAMA	JAMES			89-NC-376	K	C. A. ENDER
	ALBERT			99-XO-031	M	C. A. ENDER
	GARY			89-NC-401	M	C. A. ENDER

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	LAST NAME	PROPOSAL	STATUS	PM NAME
UNIV OF ALASKA	SCHANUS	SAMUEL	P	TOMPOROWSKI	89-NC-400	ULRICH	TANGNEY
UNIV OF ARIZONA	GIMBEL	PHILIP		JCHN	89-NL-319		GLASSMAN
UNIV OF ARKANSAS	FALCO	CHARLES	G	URSULA	39-NM-676		SCHLOSSER
UNIV OF CALIFORNIA	SIPSON	URSULA	K	PANOS	89-NP-234		CAVENDER
	KICUSIS	PANOS	J	ALAN	89-XG-034		BOYCE
	NEWELL	ALAN	D	MOSHE	89-NA-374		NACHMAN
	SHAKED	MOSHE	C	GLENN	89-NM-687		GARDUCH
	SIFES	GLENN		ISRAEL	89-NM-697		CERVERY
	WIGNANSKI	ISRAEL		RICHARD	89-NA-354		MCMICHAEL
	ULRICH	RICHARD		ASLAM	89-NE-369		SCHIOLER
	CHOMOHURY	ASLAM		NANCY	89-NC-391		ULRICH
	CRUNKER	NANCY		LUCIA	89-XG-037		CAVENDER
	SCHMIT	LUCIA	A	FRANK	89-NA-379		AMOS
	FEFER	FRANK	J	STEPHEN	89-NC-334		MATUSZKO
	FFCETS	STEPHEN	L	ARTHUR	39-NL-317		BERRY
	SECFFRION	ARTHUR	H	ALAN	89-NW-673		GLASSMAN
	HEEGER	ALAN	J	RCNALD	89-NC-322		ULRICH
	HESS	RCNALD	A	CHENMING	89-NM-584		CRWLEY
	HU	CHENMING		BRYANE	89-NE-330		WITT
	KCHLER	BRYANE	E	DAVID	89-NC-398		ULRICH
	LA BERGE	DAVID		ROBERT	89-NL-299		FREGLY
	MACKENZIE	ROBERT	O	J	89-NC-373		ULRICH
	MCCRE	J	D	C. BRADLEY	89-NC-340		WIJARCZYK
	MCREE	C. BRADLEY		EDWARD	39-AP-230		KELLEY
	NEUMARK	EDWARD	C	DANIEL	89-NC-333		DAVIS
	ITCHIE	DANIEL	M	ROBERT	89-NE-412		ROSENSTEIN
	SCOTT	ROBERT	O	GARY	89-NC-414		ULRICH
	SIRIGNANO	GARY	A	WILLIAM	89-NA-350		TIISKOFF
	SMITH	WILLIAM		PAUL	89-NC-349		ULRICH
	TRETSMAN	PAUL	M	ANNE	89-NL-287		FREGLY
	ZERA	ANNE		FRANCISCO	89-NE-383		ROSENSTEIN
	SLEST	FRANCISCO	C	CLARK	89-NE-342		CRAIG
	NOVIKOV	CLARK		EVGENY	89-NM-675		NACHMAN
	HEINONEN	EVGENY		OLLE	89-NC-390		ULRICH
	DUPONT	OLLE		TCDO	89-NM-653		NACHMAN
	GHIA	TCDO		KIRTI	89-NA-384		HELIN
	DOLLACK	KIRTI	K	STEVEN	89-NC-393		ULRICH
	RICE	STEVEN	J	R	89-NC-392		ROSENSTEIN
	SEKHAR	R		JAI	89-NE-371		WEINSTOCK
	BARNES	JAI		FRANK	89-NE-357		STOBIE
	FEHLICH	FRANK	S	RCD	89-NC-329		FREGLY
	HAMMOND	RCD		KENNETH	89-NL-309		LITTON
	LEONE	KENNETH		STEPHEN	89-NE-317		GILES
	PARKOVE	STEPHEN		JACQUES	89-NE-326		CPAG
	WAGNER	JACQUES		KELVIN	89-NE-355		SCHIOLER
	GALLIGAN	KELVIN		JAMES	89-NE-402		ROSENSTEIN
	OTTER	JAMES	M	FRED	89-NC-381		
UNIV OF CONNECTICUT							
UNIV OF COLORADO							
UNIV OF CALIFORNIA, SAN DIEGO							
UNIV OF CENTRAL FLORIDA							
UNIV OF CHICAGO							
UNIV OF CINCINNATI							
UNIV OF CONNNECTICUT							

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INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PI NAME
UNIV OF DAYTON	YANEY	PERRY	P	89-XD-050	A	CAVENDER
UNIV OF DENVER	CCCCBE	ROBERT	D	89-NC-326		WOODARCZYK
	GILBERT	JULLIANA	V	89-NC-337		WOODARCZYK
	HENSHAW	THOMAS	L	89-XD-041	A	CAVENDER
	BARTLETT	RODNEY	J	89-NC-314		DAVIS
UNIV OF FLORIDA	DHEN	YNGVE	E	89-NC-312	A	KELLEY
	SEIBERLING	L.		89-NC-312		DAVIS
	LEE	M. HOWARD		89-NC-359		BURGGRAF
	C HSU	THOMAS	T	89-NE-315		LITTON
	RAVI-CHANCAR	KRISHNASHAMY		89-NA-385		WU
	SU	W.		89-NA-406		HARITOS
UNIV OF ILLINOIS	ACRIAN	RONALC	P	89-NC-318		DAVIS
	CARROLL	ROBERT	J	89-NA-371		MCMICHAEL
	DCNCHIN	EMANUEL		89-NM-667	A	NACHMAN
	LIU	JANE		89-NL-302		FREGLY
	VAN VALKENBURG	M.		89-NM-669		WAKSMAN
	W DWYER III	THOMAS	E	89-NE-339		CRAIG
			A	89-XD-029	A	CAVENDER
UNIV OF IOWA	RETHWISCH	DAVID	G	89-XC-047	A	CAVENDER
UNIV OF KANSAS	SMENOY	PRAKASH	P	89-NE-393		ROSENSTEIN
UNIV OF LOWELL	FIDCY	MICHAEL	A	89-NM-651		WAKSMAN
UNIV OF MAINE	UNERTL	WILLIAM	N	89-NC-399		ULRICH
UNIV OF MARYLAND	KANAL	LAVEEN	N	89-NC-380		ULPICH
UNIV OF MARYLAND, BALTIMORE CAMPUS	YANG	JACKSON C	S	89-NE-318		GILES
UNIV OF MASSACHUSETTS	CARTER	GARY	H	89-NA-358		BOYCE
	RAYNER	KEITH		89-NC-374		ULRICH
	RCSENGAUM	DAVID	A	89-NL-312	A	FREGLY
UNIV OF MICHIGAN	JAIN	RAMESH		89-NL-296		WAKSMAN
	KCRYBLUM	SYLVAN		89-NM-716		FREGLY
	MEERKCV	SEMYON		89-NL-311	A	CROWLEY
	BATES	FRANK	S	89-NC-695	C	ULRICH
				89-NC-356	H	ULRICH
UNIV OF MINNESOTA	HSIAO	C.	C.	89-NC-360		HARITOS
	LEE	E.	B	89-NA-380		CROWLEY
	LOGUE	TIMOTHY	P	89-NM-717		ULRICH
	SHRAGGWITZ	EUGENE		89-NC-378		GLASSMAN
UNIV OF MISSOURI	SCHLES	C. QUINTON		89-NM-672		ROSENSTEIN
	DEFACIO	BRIAN		89-NE-396		NACHMAN
	EL-GIZAWY	AHMED SHERIF		89-NM-714		ROSENSTEIN
	JACQAS	MARC		89-NE-395		CAVENDER
	RAHMAN	MCHAMED		89-XC-049	A	SCHIOLER
	SCHMITT	JCHN		89-NE-405		ULRICH
	MEGAMBAN	MEHRDAD		89-NC-385		HARITOS
	HALLETT	JCHN		89-NA-399		STOBIE
	HARRINGTON	THOMAS		89-NC-320		TANGNEY
	PEIY	THOMAS		89-NL-314		ULRICH
UNIV OF NEW MEXICO				89-NC-602		ULRICH
				89-NC-419		ULRICH

INSTITUTION

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF DIEGO CALIFORNIA	DIEBELS GALVEZ	JEAN-CLAUDE MIGUEL		39-NP-217 89-NP-229 89-AP-243	SCHLOSSER BARKER PARKER	
JL ROSS	FREDERICK	MARK	O	89-NA-344	WU	
TRUMAN WALTERS	TIMOTHY C RANDALL	J		39-NA-414	HARITOS	
WEISER MICHAEL WICHALEWICZ	EDWARD MARTIN ZBIGNIEW	A		89-NA-428 89-NC-335	PCMICHAE DAVIS	
UNIV OF NORTH CAROLINA	TCILLE WIGHTMAN	JON		89-NE-403 89-NM-705	SCHIOLER WAKSMAN	
UNIV OF NOTRE DAME	MILLER KHAN	MARK ALBERT	R	89-NM-706	GLASSMAN	
UNIV OF OKLAHOMA	DYKE	AKHTAR THOMAS	E	39-NM-581	BERRY	
UNIV OF OREGON	MOSSAERG ANADALINGAM	THOMAS G.	S	89-NE-297	SCHIOLER	
UNIV OF PENNSYLVANIA	KASSAM FALK	SALEEM JOEL	S	89-NE-376	SCHIOLER	
UNIV OF PITTSBURGH	PAST ALEMAR	CHARLES ALBERT	A	89-NC-386	WODARCZYK	
UNIV OF PUERTO RICO	MAZUMCAR KUMARESAN	JOSE PRANAB	J	89-NC-413	ULRICH	
UNIV OF RHODE ISLAND	TAGGART GUEST	RAMDAS DAVID	M	89-NE-379	ULRICH	
UNIV OF ROCHESTER	HAYHOE MELISSINOS	MARTIN MARY	C	89-NA-423	ROSENSTEIN	
	WEAGLER LYNCH	ADRIAN MICHAEL	K	89-NM-659	HARITOS	
	SANDOKT CHENG	JAMES THOMAS	D	89-NC-412	BAROUCH	
	MACHUKAR MUNTZ	HSIEN ANUPAM	C	89-NM-694	HARITOS	
	MC CURDY MUNCHLER	E. P. ALAN	G	89-NA-291	CRWLEY	
	McCAY CHAN	DAVID T.	C	89-NE-221	HARITOS	
UNIV OF SOUTH CAROLINA	FERRARIS JESHI	WEN RICHARD	A	89-NE-413	WEINSTOCK	
UNIV OF SOUTH FLORIDA	LAGOW	JCHN SHIY	J	89-NE-410	HARITOS	
UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	LIECHTI PANNELL	SHIY RICHARD	P	89-NA-307	WODARCZYK	
UNIV OF TENNESSEE	VARMA	JCHN GERALD	P	89-NA-392	BARKER	
UNIV OF TEXAS	SRCH STRINGFELLOW	SHIY KURT	S	89-NE-323	WAKSMAN	
UNIV OF UTAH	CUGHSTUN	J. A. STARKE, JR.	E	89-NC-350	ROSENSTEIN	
UNIV OF VERMONT				89-NC-382	ULRICH	
UNIV OF VIRGINIA				89-NE-375	BARKER	
				89-NE-332	WATUSZKO	
				89-NA-417	HARITOS	
				89-NC-383	ULRICH	
				89-NE-375	ROSENSTEIN	
				89-AP-232	BARKER	
				89-NE-353	LITTON	
				89-NM-707	NACHMAN	
				89-NE-214	ROSENSTEIN	

STATUS : - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF WASHINGTON	CROWDON LASIECKA AKSAY	J. IRENA I.	P A A	89-NM-662 89-NM-650 89-NC-364		GLOSSMAN CROWLEY ULRICH
UNIV OF WISCONSIN	DOHERTY ENGEL YEE AGRAWAL GUBNER HELSTROM CARRON COCN HANSEN SUTCLIFFE DARRAH DARRAH	NANCY THOMAS SINCLAIR RAJEEV JOHN ERIC KEITH DENNIS ANDREW B RODNEY RODNEY	H S A E F N C T	89-NC-345 89-NC-351	A A	ULRICH MATUSZKO BURGGRAF LITTON CROWLEY BAROUCH
UNIV OF WYOMING				89-NC-324	E	WILKES
UNIV OF YORK UNIVERSAL ENERGY SYSTEMS INC				89-NC-313		ULRICH
VANDERBILT UNIVERSITY	LENHERT	PAUL	G	89-NE-416		ROSENSTEIN
VIRGINIA POLYTECHNIC INST & STATE UNIV	GIBSON CRCSBY CROWE RAMAPRAN WHITNEY ABRAMS GULLARI KAZIMIERCZUK WEISS HUPERMAN YL IPSSEN SAMUEL HIRSCH	HARRY GLENN CLAYTON B PAUL RICHARD ESIN MARIAN ISAAC BERNARDO Y ILSE ARTHUR JCY	H A A A A A A	89-NA-403 89-NC-348 89-XO-027 89-XO-039	C A A A	HARITOS DAVIS CAVENDER CAVENDER CAVENDER CAVENDER CAVENDER CAVENDER
WASHINGTON STATE UNIVERSITY	K WRIGHT STATE UNIVERSITY			89-NC-310 89-NC-377		ULRICH
XEROX RESEARCH CENTER				89-NE-365	A	ROSENSTEIN
Y. Y. YU ASSOCIATES				89-NL-294		WELIN
YALE UNIVERSITY				19-NL-213		FREGLY
YALE UNIVERSITY SCHOOL OF MEDICINE				89-NC-404		TANGNEY
				89-NE-411		ULRICH
				89-NE-394		WITT
				89-NE-323	A	ROSENSTEIN
				89-NA-366	C	GILES
				89-NM-677	D	AMOS
				89-NL-286		HOLLAND
				89-NC-319		TANGNEY
						TANGNEY

PART II

TITLE	TYPE/MONTHS	STATUS	PROGRAM MANAGER	INITIATE DATE
TITLE (CONT.)	RECEIVED AMOUNT	PROPOSAL #	PROPOSAL #	START DATE
INSTITUTION	INVESTIGATOR			TO/T AMT
FAR TIME STEREO TRIANGULATION FOR STRUCTURAL SYSTEM IDENTIFICATION TEXAS A AND M UNIVERSITY	JUNKINS	JOHN	R 10/07/89 \$99,282	AMOS 89-NA-347
ROBUST CONTROL SYSTEM DESIGN IN THE FREQUENCY DOMAIN FOR HIGH PERFORMANCE IN PRESENCE OF REALISTIC UNCERTAINTIES & CONSTRAINTS TEXAS A AND M UNIVERSITY	JAYASURIYA	SUHADA	N 36 13/07/89 \$337,628	AMOS 89-NA-352
EFFECTIVE COMPUTATIONAL STRATEGY FOR PREDICTING THE RESPONSE OF COMPLEX SYSTEMS GEORGE WASHINGTON UNIVERSITY	KOGR	AHMED	R 36 03/08/89 \$219,588	A 01/01/90 AMOS 89-NA-362
ACTIVE CONTROL OF VIBRATIONS IN LARGE COMPLIANT STRUCTURES BY MODE LOCALIZATION TEXAS A AND M UNIVERSITY	JAYASURIYA	SUDHADA	N 35 03/08/89 \$358,594	AMOS 89-NA-363
COMPUTATIONAL METHODS FOR MATERIAL FAILURE PROCESSES NORTHWESTERN UNIVERSITY	BELYTSCHKO	PROFESSOR	R 36 03/08/89 \$225,176	0 01/01/90 AMOS 89-NA-364
STUDY OF DYNAMICS AND OPTIMAL CONTROL OF ROBOTIC MANIPULATORS BY CELL MAPPING APPROACH NEW JERSEY INSTITUTE OF TECHNOLOGY	LEU	MING	N 36 04/08/89 \$255,972	C 01/01/90 AMOS 89-NA-365
DYNAMICS AND VIBRATION OF SANDWICH PLATES AND SHELLS WITH LAMINATED COMPOSITE FACINGS Y. Y. YU ASSOCIATES	YU	Y	N 36 05/08/89 \$122,660	D 01/01/90 AMOS 89-NA-366
THEORETICAL AND FINITE ELEMENT VIBRATION OF AIRCRAFT CONTROL SURFACES PURPLE UNIVERSITY OF ENGINEERING & TECH	PAYDAR	NASSER	N 12 05/08/89 \$24,692	D 01/01/90 AMOS 89-NA-370
MODELING AND CONTROL OF LARGE FLEXIBLE VEHICLES IN SPACE STANFORD UNIVERSITY	ARTHUR	ARYSCN	R 12 17/08/89 \$50,000	AMOS 89-NA-376

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER *PROPOSAL *	INITIATE START DATE TOT AMT
STOCHASTIC PROPERTIES OF MISTUNED BLADED DISK	CARE	N 36 17/08/89 \$218,450	AMOS	
INDIANA UNIVERSITY-PLRDUÉ UNIV AT INCPLS	AFOLABI			89-NA-377
FUROLE RESEARCH FOUNDATION	NWOKAH	N 36 17/C8/89 \$285,122	AMOS	
CONTROL AUGMENTED STRUCTURAL OPTIMIZATION OF AERELASTICALLY TAILED FIBER COMPOSITE WINGS	SCHMIT	R 36 17/08/89 \$469,051	D AMOS	
UNIV OF CALIFORNIA	LUCIEN			89-NA-379
HIGH VOLTAGE CONDUCTORS ON SPACECRAFT AND THEIR INTERACTIONS WITH SELF GENERATED PLASMA CLOUDS	MASTINGS	R 24 19/09/89 \$219,405	A BIRKAN	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CARIEL			89-NA-425
A NEW STATISTICAL METHOD FOR IN-SITU DETERMINATION OF SOIL DYNAMIC PROPERTIES AND PREDICTION OF STRUCTURE RESPONSE AND LACING	JACKSON C	N 24 25/07/89 \$141,662	BOYCE	
UNIV OF MARYLAND	YANG			89-NA-353
CONSTITUTIVE MODELING OF CEMENTED SOILS	KIOUSIS	N 24 16/08/89 \$152,693	BOYCE	
UNIV OF ARIZONA	PANOS			89-NA-374
PROVIDE COMPUTER SUPPORT ON WL CRAY-2 FOR AFOSR CONTRACT NO. 89-C-0037 WITH APPLIED RESEARCH ASSOCIATES, INC	SCOTT	N 12 18/09/89 \$760	A BOYCE	
APPLIED RESEARCH ASSOCIATES INC				01/10/89 \$760
CONSTRAINT NETS FOR LIFE CYCLE ENGINEERING	PETER	N 36 22/08/89 \$1,322,943	CROWLEY	
NORTH CAROLINA STATE UNIVERSITY	C GRADY			89-NA-381
A UNIFIED REPRESENTATION TO SUPPORT EVALUATION OF DESIGNS FOR MANUFACTURABILITY	MICHAEL	N 36 22/08/89 \$1,245,462	CROWLEY	
REVESSELER POLYTECHNIC INSTITUTE	WILZIE			89-NA-382

REPORT DATE 10/11/89

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PROCESS OPTIMIZATION FOR IMPROVED STRUCTURAL INTEGRITY	HAHN	N 09 10/07/89 \$58,1284	MARITOS	89-NA-345
STRESS DIFFUSION IN COMPOSITES AT FINITE STRAIN	K	N 36 10/07/89 \$87,612	MARITOS	89-NA-348
DYNAMICS AND CONTROL OF TETHERED ANTENNAS/REFLECTORS IN CRBIT	STRONGE	R 24 10/07/89 \$237,535	A MARITOS 89-NA-349	15/12/89 \$34,000
MATRIX FRACTURE MECHANISMS AND MICROMECHANICS VARIABLES IN FIBER- REINFORCED CERAMIC MATRIX COMPOSITES	BAINLM	PETER	N 36 05/08/89 \$444,461	MARITOS 89-NA-367
(30 URI-GB) ANISOTROPIC DAMAGE MECHANICS MODELING IN METAL MATRIX COMPOSITES	WANG	A	N 36 05/08/89 \$294,914	MARITOS 89-NA-368
TAILCRING INTERFACES FOR COMPOSITE MATERIALS	VOYACJIS	C	N 36 17/08/89 \$445,366	MARITOS 89-NA-375
CRAZING IN POLYMERIC AND COMPOSITE SYSTEMS	LIECHTI	K	R 36 17/08/89 \$295,980	MARITOS 89-NA-380
(90 URI) MODELLING OF WAVE PROPAGATION IN LAYERED MEDIA	HSIAC	C	N 93 05/09/89 \$158,030	MARITOS 89-NA-388
NORTHERN ILLINOIS UNIVERSITY	BLCOM	FREDERICK	N 36 05/09/89 \$165,000	MARITOS 89-NA-389
(90 URI) NON-LOCAL CONTINUUM DAMAGE MECHANICS AND PLASTICITY APPROACH TO THE INELASTIC BEHAVIOR OF BRITTLE SOLIDS	YAZDANI	FRANK		

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TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
(9) URI/G) CREEP IN METAL MATRIX-COMPCSITES ILLINOIS INSTITUTE OF TECHNOLOGY	SCIAMPARELLA CESAR JONG	N 48 16/09/89 \$553,623	HARITOS 89-NA-397		
(9) URI/G) FUNDAMENTAL STUDY ON MECHANICAL BEHAVIOR OF SUPERCONDUCTING MAGNETO-THERMO-ELASTIC COMPCSITES CLARKSON UNIVERSITY	LEE NEGARBAKAN MEHRDAD	N 12 16/09/89 \$116,965	HARITOS 89-NA-398		
(9) URI/G) INTEGRATED MODELING AND SIMULATION OF DAMAGE IN COMPOSITE MATERIALS UNIV OF NEBRASKA		N 36 16/C9/89 \$750,000	HARITOS 89-NA-399		
(9) URI/G) ENALYTICAL AND EXPERIMENTAL INVESTIGATION OF THE MECHANISM OF COMPOSITE MATERIALS SYRACUSE UNIVERSITY	MANDEL JAMES	N 24 16/09/89 \$322,196	HARITOS 89-NA-400		
(9) URI/G) THREE-DIMENSIONAL EXPERIMENTAL & COMPUTATIONAL ANALYSIS OF CRACKS APPROACHING INTERFACES STATE UNIVERSITY OF NEW YORK	CHIANG FU-PEN	N 36 16/09/89 \$365,681	HARITOS 89-NA-401		
(9) URI/G) A FRACTURE MODEL BASED ON SIMILARITY AT FAILURE FOR STRUCTURING MATERIALS DUKE UNIVERSITY	CJORCIVIC RASKO	N 36 16/09/89 \$303,144	HARITOS 89-NA-402		
(9) URI/G) MECHANICAL & ELECTROMAGNETIC PROPERTIES OF POLYMERS IN THE PROCESS OF KINETIC FRACTURE UNIV OF KYUNG KU	HANSEN ANDREW	N 36 16/09/89 \$361,563	HARITOS 89-NA-403		
(9) URI/G) THE IN-SITU DEVELOPMENT OF A 3-D REINFORCEMENT STRUCTURE FOR THE IMPROVEMENT OF INTERLAMINAR PROPERTY COMPCSITES OKLAHOMA STATE UNIVERSITY	RADFORD DONALD	N 36 16/09/89 \$484,510	HARITOS 89-NA-404		
(9) URI/G) THERMOECHANICAL FATIGUE FAILURE CRITERIA ILLINOIS INSTITUTE OF TECHNOLOGY	NEWELL GOLAM	N 36 16/09/89 \$443,157	HARITOS 89-NA-405		

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TAT AMT
(90 LRI/G) MECHANICAL BEHAVIOR OF PHASE TRANSFORMING MATERIALS UNIV OF HOUSTON	RAVI-CHANDAR KRISHNAMURTY	N 36 16/09/89 \$337,774	HARITOS 89-NA-406	
(90 LRI/G) EXPERIMENTAL INVESTIGATION ON THE DYNAMIC CRACK PROPAGATION IN CERAMICS LEHIGH UNIVERSITY	VOLOSHIN ARKADY	N 36 16/09/89 \$630,239	HARITOS 89-NA-407	
(90 LRI/G) AN EMPIRICAL METHOD OF MEASURING THE DEFORMATION AND FRACTURE STRENGTHS OF MICROSTRUCTURAL COMPONENTS SYRACUSE UNIVERSITY	LIU HAO-WEN	N 36 16/09/89 \$747,591	HARITOS 89-NA-408	
(90 LRI/G) EFFECTIVE PROPERTIES OF COMPOSITE MATERIALS AND POLYCRYSTALS FROM MICROSTRUCTURE MEASUREMENT CATHOLIC UNIVERSITY OF AMERICA	BERAN MARK	N 24 16/09/89 \$601,312	HARITOS 89-NA-409	
(90 LRI/G) COMPUTER MODELING OF FAILURE PROCESSES OF FIBROUS COMPOSITE MATERIALS UNIV OF SOUTH CAROLINA	LYNCH JAMES	N 36 16/09/89 \$527,379	HARITOS 89-NA-410	
(90 LRI/G) MICROSTRUCTURAL DESIGN OF CARBON FIBERS TO IMPROVE COMPOSITE PROPERTIES UNIV OF TEXAS	JOSHI SHIV	N 36 16/09/89 \$498,958	HARITOS 89-NA-411	
(90 LRI/G) CONSTITUTIVE MODELING AND EXPERIMENTAL STUDIES OF DEFORMATION AND FAILURE IN PARTICLE REINFORCED METAL-MATRIX COMPOSITES UNIV OF RHODE ISLAND	TAGGART DAVID	N 24 16/09/89 \$211,656	HARITOS 89-NA-412	
(90 LRI/G) MICROSTRUCTURAL CHARACTERIZATION OF GLASSY BRITTLE MATERIALS UNDER CYCLIC LOADS UNIV OF NEW MEXICO	ROSS TIMOTHY	N 36 18/09/89 \$303,230	HARITOS 89-NA-414	
(90 LRI/G) EXPERIMENTAL MICROMECHANICS OF COMPOSITE MATERIALS MONTANA STATE UNIVERSITY	MANDELL JOHN	N 36 18/09/89 \$389,067	HARITOS 89-NA-415	

TITLE TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(9) LPI/G) A COMPREHENSIVE STUDY OF MATRIX FRACTURE MECHANISMS IN FIBER-REINFORCED CERAMIC MATRIX COMPOSITES	UNIV OF TEXAS DALLAS UNIVERSITY	WANG	ALBERT	N 36 18/09/89 \$471,000	HARITOS 89-NA-416
(9) LPI/G) UNDERSTANDING OF FAILURE MECHANISM AND STRENGTH IMPROVEMENT BY MICRO-MACRO ANALYSIS IN LAMINATED COMPOSITES	UNIV OF CHAM	WEN		N 36 18/09/89 \$440,416	HARITOS 89-NA-417
(9) LPI/G) PCIE OF STOCHASTIC MICROSTRUCTURES ON INELASTIC MATERIAL BEHAVIOR	STATE UNIVERSITY OF NEW YORK	KUSHNER	ALAN	N 36 18/C9/89 \$380,978	HARITOS 89-NA-418
(9) LPI/G) MICROMECHANICS OF INCLUSIONS DEPENDING	SYRACUSE UNIVERSITY	LEVY	ALAN	N 36 18/09/89 \$232,099	HARITOS 89-NA-419
MECHANICAL THEORY FOR EXPANSIVE DAMAGE IN MONOTOMIC AND CYCLIC FRACTURE OF CERAMIC COMPOSITES	WESTERN UNIVERSITY OF CALIFORNIA	BAZANT	IOENEK	N 36 19/09/89 \$275,047	HARITOS 89-NA-420
(9) LPI/G) STOCHASTIC FAILURE ANALYSIS OF BRITTLE MATERIALS USING DISCRETE PARTICLE SIMULATION	DUKE UNIVERSITY	JACOBS	TIMOTHY	N 36 19/C9/89 \$292,479	HARITOS 89-NA-421
(9) LPI/G) MICROMECHANICAL PREDICTION OF TENSILE DAMAGE FOR CERAMIC MATRIX COMPOSITES UNDER HIGH TEMPERATURE	CITY COLLEGE - CLNY	DELALE	FERIDUN	N 36 19/09/89 \$263,371	HARITOS 89-NA-422
(9) LPI/G) AN EXPERIMENTAL APPROACH TO PREDICT THE GROWTH RATE OF SMALL FATIGUE CRACKS BASED ON LARGE CRACK DATA	UNIV OF PLENTY RICO	MALUMCAR	FRANAB	N 24 19/09/89 \$150,368	HARITOS 89-NA-423
(9) LPI/G) MECHANICS OF HIGH TEMPERATURE METAL MATRIX COMPOSITES	ZELICA STATE UNIVERSITY	KOURIS	CEMIRIS	N 36 19/C9/89 \$514,500	HARITOS 89-NA-424

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TCT AMT	
CALCULATED AERODYNAMICS OF SLENDER WINGS IN SEVERE UNSTEADY MOTION INCLUDING EDGE SEPARATION MASSACHUSETTS INSTITUTE OF TECHNOLOGY MCCUNE	JAMES	R 24 25/07/89 \$92,300	A HELIN 89-NA-356	\$92,300	01/12/89
ACTIVE STABILIZATION OF AEROMECHANICAL SYSTEMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ALAN EPSTEIN	R 36 26/07/89 \$750,654	A HELIN 89-NA-359	\$250,014	01/11/89
SIMULATION, CHARACTERIZATION AND CONTROL OF FORCED UNSTEADY SEPARATED VISCOUS FLOWS USING NAVIER-STOKES EQUATIONS UNIV OF CINCINNATI GMIA	KIRTI	N 24 30/08/89 \$315,649	A HELIN 89-NA-384	\$150,728	01/01/90
ACTIVE CONTROL OF VORTICAL FLOWFIELDS STANFORD UNIVERSITY	ROBERTS LEONARD	N 24 30/08/89 \$330,000	A HELIN 89-NA-386	\$315,649	
DYNASTADY FLUID DYNAMIC INTERACTION IN SUPERSONIC COMBUSTORS TEXAS A AND M RESEARCH FOUNDATION	MARONGIU	N 24 14/09/89 \$119,138	A HELIN 89-NA-394		
EXPERIMENTAL STUDIES OF REATTACHING SCENIC RADIAL FLOWS TEXAS A AND M RESEARCH FOUNDATION	MARONGIU	N 24 14/09/89 \$153,777	A HELIN 89-NA-395		
STUDY OF THE LEAVING-EDGE VORTEX DYNAMICS IN THE UNSTEADY FLOW CIVIL AIRFOIL WASHINGTON STATE UNIVERSITY	RAMAPRIYAN	N 24 14/09/89 \$225,519	A HELIN 89-NA-396	\$112,747	01/01/90
COMPRESSIBILITY EFFECTS ON DYNAMIC STALL OF AIRFOILS UNDERGOING RAPID TRANSIENT PITCHING MOTION NAVAL POST GRADUATE SCHOOL	CHANDRASEKHARA	N 36 20/09/89 \$311,700	A HELIN 89-NA-426	\$103,000	01/10/89
THE FEASIBILITY OF THRUST AUGMENTING EJECTORS FOR HIGH-SPEED PROJECT AND POSSIBLE USE AT WASHINGTON UNIVERSITY	GARRELS CHARLES	N 24 27/09/89 \$290,500	A HELIN 89-NA-427	\$225,519	\$211,700

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TNT AMT
ON THE LARGE COHERENT STRUCTURES IN A WALL JET UNIV OF ARIZONA	WYGNANSKI	R 21/07/89 \$108,930	A MCMICHAEL 89-NA-354	\$109,990 13/11/83 \$108,990
STUDY OF TURBULENT BOUNDARY LAYER STRUCTURES BY DIRECT NUMERICAL LARGE-EDDY SIMULATION ATMOSPHERIC CENTER FOR ATMOSPHERIC RESEARCH	JACKSON	N 25/07/89 \$204,500	A MCMICHAEL 89-NA-357	\$99,700 01/11/89 \$204,500
STRUCTURE & DYNAMICS OF TURBULENT WALL LAYERS UNIV OF ILLINOIS	ADRIAN	N 09/08/89 \$328,689	A MCMICHAEL 89-NA-371	
PAVIER-STOKES SIMULATION OF BOUNDARY LAYER TRANSITION ARIZONA STATE UNIVERSITY	RODOLFO REED	R 09/09/89 \$280,607	A MCMICHAEL 89-NA-372	
NUMERICAL STUDIES OF THE STRUCTURE OF COMPRESSIBLE TURBULENT SHEAR FLOWS PRINCETON UNIVERSITY	CRSZAG	Q 14/09/89 \$486,807	A MCMICHAEL 89-NA-393	\$119,934 15/01/90 \$486,807
DYNAMICAL SYSTEM PREDICTION OF THE SCALAR FIELD IN A TURBULENT CHANNEL FLOW UNIV OF NEW MEXICO	TRUMAN RANDALL	N 27/09/89 \$70,000	A MCMICHAEL 89-NA-423	
THREE-DIMENSIONAL STRUCTURE OF TRANSITIONAL ECUMENICAL LAYERS ARIZONA STATE UNIVERSITY	SARIC	N 27/09/89 \$211,000	A MCMICHAEL 89-NA-429	\$78,000 02/01/90 \$216,000
ON THE AERODYNAMIC RESEARCH AND TRAINING PROGRAM AND A - DATA AERONAUTICAL AND SPACE ADMIN	WANDER	N 06/07/89 \$150,000	A SAKELL 89-NA-343	\$150,000 01/10/89 \$150,000
COMPUTATIONAL STUDIES OF VORTEX BREAKDOWN ARIZONA STATE UNIVERSITY	NETTLETT	N 14/07/89 \$41,670	A SAKELL 89-NA-353	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT	
COLLABORATIVE TESTING JET TURBULENCE MODELS	BRADSHAW	N 16 01/08/89 \$223,433	A SAKELL 89-NA-360	\$223,433 15/11/99 \$223,433	
STUDY JET TURBULENCE IN RAREFIED GASES	DAVID NIXON	N 36 14/09/89 \$324,394	A SAKELL 89-NA-390		
INVESTIGATION OF BURNETT EQUATIONS FOR TWO-DIMENSIONAL HYPERSONIC FLOW	CHAPMAN	N 12 14/09/89 \$130,684	A SAKELL 89-NA-391		
DEVELOP A VISCOUS SHOCK LAYER THEORY FROM MAXWELL'S TRANSFER EQUATIONS AND RELATED PARTICULATE/CONTINUUM ANALYSES	CEAN CHENG	R 24 14/09/89 \$234,205	A SAKELL 89-NA-392		
FUNDAMENTAL STUDIES OF DROPLET INTERACTIONS IN DENSE SPRAYS	SIRIGNAC	N 36 10/01/89 \$312,160	A TISHKOFF 89-NA-350	\$100,000 01/11/89 \$212,168	
FLAME TURBULENCE INTERACTIONS	WILLIAM SANTAVICCA	N 36 24/07/89 \$227,568	A TISHKOFF 89-NA-355	\$74,693 01/11/89 \$227,568	
LIQUID JET BREAKUP: DIRECT NUMERICAL SIMULATION	ASHGRIZ NASSER	N 24 05/03/89 \$96,815	C TISHKOFF 89-NA-359		
LIQUID PARTICLE INCEPTION AND GROWTH PROCESSES IN COMBUSTION	SANTCRO ROBERT	R 24 24/08/89 \$210,000	A TISHKOFF 89-NA-393	\$100,000 15/01/90 \$210,000	
LEVEL ORGANIC LASER DIAGNOSTIC TECHNIQUES	HUESTIS DAVID	N 36 05/03/89 \$619,720	A TISHKOFF 89-NA-397	\$162,907 01/03/90 \$0	
LIQUID INJECTION					

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STOCHASTIC THEORY FOR THE CRACK INSTABILITY IN SHORT FIBER REINFORCED COMPOSITES	UNIV OF NEW MEXICO	JU	N 36 07/07/89 \$336,371	WU	89-NA-364
MECHANICAL INTERACTIONS BETWEEN SYNTHETIC FIBER & CEMENT BASED MATRIX IN FRC COMPOSITES	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LI	N 24 09/08/89 \$195,800	WU	89-NA-373
MICRACKING CHARACTERISTICS OF CONCRETE DISCONTINUITY POINT	C HSU	THOMAS	N 24 30/08/89 \$231,794	WU	89-NA-385

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE T/T AMT
MICROTHERMAL ATOMIC OXYGEN GENERATOR NASA - LANGLEY RESEARCH CENTER	CUTLAW R	N 04/06/99 \$30,000	A BURGGRAF 89-NC-344	\$30,000 01/10/89 \$30,000
COMBINED XPS-AES-ISS-SIMS-MODULATED MOLECULAR BEAM INVESTIGATION OF THE REACTIONS OF OXYGEN AND FLUORINE WITH SILICON SURFACES UNIV OF WASHINGTON ENGEL	THOMAS	R 08/89 15/08/89 \$81,369	A BURGGRAF 89-NC-351	\$81,069 01/04/90 \$81,069
EPITAXY INDUCED BY ENERGETIC CHANNELING UNIV OF FLORIDA	SEIBERLING L	N 05/09/89 \$117,584	A BURGGRAF 89-NC-359	
1990 SANIBEL SYMPOSIA UNIV OF FLORIDA	CHRN YNGVE	N 06/07/89 \$15,000	A DAVIS 89-NC-312	
NON-LINEAR OPTICAL EFFECTS IN MOLECULES UNIV OF FLORIDA	BARTLETT RODNEY	N 11/07/89 \$35,779	A CAVIS 89-NC-314	
NONLINEAR OPTICAL PROPERTIES OF CONDUCTING POLYMERS UNIV OF HOUSTON SU		N 20/07/89 \$38,474	A DAVIS 89-NC-313	
FATIGUE DESIGN, CONSTRUCTION, AND PROCESSING OF HIGH-PERFORMANCE POLYLINEAR OPTICAL MATERIALS NORTHWESTERN UNIVERSITY MARKS	TCBIN	N 20/07/89 \$261,508	A DAVIS 89-NC-319	\$261,508 01/12/89 \$721,165
GAS-SOLID DYNAMICS AT DISORDERED AND ADSORBATE-COVERED SURFACES PRINCETON UNIVERSITY PATILZ HERSCHEL		N 27/07/89 \$172,444	A CAVIS 89-NC-325	
NONLINEAR OPTICS WITH MOLECULAR MATERIALS AND POLYMERS STATE UNIVERSITY OF NEW YORK PRASAD FARAS		R 31/07/89 \$336,766	A DAVIS 89-NC-327	

TITLE INSTITUTION	TYPE INVESTIGATOR	MONTHS RECEIVED	STATUS PROGRAM MANAGER	INITIATE STAFF CATE TOT AMT	
				AMOUNT	PROPOSAL #
FROWNIAN DYNAMICS SIMULATIONS AND GROUP THEORY STATISTICAL MECHANICS OF SUSPENSIONS ROYAL MOLLYDAY & BEDFORD NEW COLLEGE	HFEYES	C. M.	N 12 31/07/89 \$64,943	DAVIS	89-NC-330
THEORETICAL INVESTIGATIONS OF THE NONLINEAR OPTICAL RESPONSE OF ORIENTED POLYMERS AND POLYMERIC DEVICES STATE UNIVERSITY OF NEW YORK	GEORGE	THOMAS	N 12 31/07/89 \$165,000	DAVIS	89-NC-332
SPECTROSCOPY OF THE TRANSITION STATE REGION IN HYDROGEN TRANSFER REACTIONS UNIV OF CALIFORNIA	NEUMARK	CARIEL	R 12 31/07/89 \$147,937	DAVIS	89-NC-333
STUDIES OF MOLECULAR BONDS IN THE FEMTOSECOND TIME SCALE WITH SUPERSIMIC MOLECULAR BEAMS UNIV OF NEW MEXICO	WALTERS	EDWARD	N 12 01/08/89 \$228,580	DAVIS	89-NC-335
THEORIES AND FREQUENCIES FOR PHYSICAL PROPERTIES OF ORGANIC NONLINEAR OPTICAL MATERIALS IN CONDENSED PHASES LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	COWELL	F	N 12 01/08/89 \$185,900	DAVIS	89-NC-338
IONIZED-CLUSTER-BEAM/PARTIALLY-IONIZED-REAM DEPOSITION OF ELECTRO-OPTICAL AND NONLINEAR OPTICAL ORGANIC MATERIALS & DEVICE DEVELOPMENT RENSSELAER POLYTECHNIC INSTITUTE	MCDONALD	JOHN	N 12 01/08/89 \$337,301	DAVIS	89-NC-339
THEORIES AND FREQUENCIES FOR PHYSICAL PROPERTIES OF ORGANIC NONLINEAR OPTICAL MATERIALS IN CONDENSED PHASES INC LOS ALAMOS TECHNICAL ASSOCIATES INC	COWELL	F.	N 12 10/09/89 \$185,900	DAVIS	89-NC-346
THE CALCULATION OF HIGHLY EXCITED ROTATION-VIBRATION MOTIONS AND RADIACTIVE LIFETIMES OF SOME SMALL MOLECULES UNIV OF TORONTO	SUTCLIFFE	E	N 12 14/09/89 \$48,885	DAVIS	89-NC-348
FOURTH INTERNATIONAL SYMPOSIUM ON SCALABILITY PHENOMENA RENSSELAER POLYTECHNIC INSTITUTE	KRAUSE	SONJA	N 12 15/09/89 \$5,000	DAVIS	89-NC-352

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TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE
THEORY AND EXPERIMENTS ON CHEMICAL INSTABILITIES	RICHARD J CHHN	R 12 31/08/89 \$140,000	A DAVIS 89-NC-358	\$140,000 01/01/90
STANFORD UNIVERSITY	RCSS			
VOLCANIC GROUND STATES	NICOLAIDES C. A.	N 12 06/09/89 \$102,000	D DAVIS 89-NC-352	
MECROTECH & PHYSICAL CHEMISTRY INST				
UNSTRUCTURALIZATION OF INORGANIC NETWORK POLYMERS	PIANCINI PATRICIA	N 12 03/07/89 \$157,519	MATUSZKO 89-NC-309	
PENNSYLVANIA STATE UNIVERSITY				
PROCESSED PRECURSORS FOR METAL NITRIDES	FACICREK K	N 12 28/07/89 \$96,316	MATUSZKO 89-NC-326	
LUTRA SYSTEMS INC				
POLYMER-SUPPORTED SILSESQUIOXANES AS MODELS FOR SILICA	FEHER FRANK	N 12 31/07/89 \$149,270	MATUSZKO 89-NC-334	
UNIV OF CALIFORNIA				
NEW EXPERIMENTAL CHALLENGES IN ELEMENTAL FLUORINE CHEMISTRY: AN EMERGING TECHNOLOGY	LAGOW RICHARD	R 12 04/09/89 \$10C,000	A MATUSZKO 69-NC-343	\$100,000 01/12/89
UNIV OF TEXAS				
SYNTHESIS AND STUDY OF METALLONITRIDE COMPLEXES AND POLYMERS	COTTERY NANCY	R 12 03/09/89 \$72,944	A MATUSZKO 89-NC-345	\$72,944 15/01/90
UNIV OF WASHINGTON				
PIELOLICAL SYNTHESIS OF SUBSTITUTED C-AMINOPHENOLS	LEIS TERRY	P 12 21/08/89 \$95,000	A MATUSZKO 89-NC-354	\$70,421 01/01/90
GENERAL ELECTRIC CO				
PIELOLICAL SYNTHESIS OF SUBSTITUTED C-AMINOPHENOLS	FINKE-SEINER HERMAN	R 12 13/09/89 \$92,895	M MATUSZKO 89-NC-351	\$92,895
GENERAL ELECTRIC CO				

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE
TITLE (CONT.)		AMOUNT	PROPOSAL #		TOT AWT
PHOTOFABRICATION OF THREE-DIMENSIONAL PROTOTYPES	NARANG	\$146,352	MATUSZKO 89-NC-416		
SCI INTERNATIONAL	SUBHASH				
WEAK ELECTRIFICATION OF ICE PHASE PRECIPITATION					
UNIV OF NEVADA	JOHN HALLETT	N 12 21/07/89 \$99,978	STOBIE 89-NC-320		
THE EFFECTS OF ATMOSPHERIC TURBULENCE ON IMAGE QUALITY					
UNIV OF COLORADO	FREHLICH ROD	N 12 31/07/89 \$66,782	STOBIE 89-NC-328		
SCATTERING OF RADIATION BY COMPLEX MICROPARTICLES: A LABORATORY FOR MICROPARTICLE PHYSICS					
CATHOLIC UNIVERSITY OF AMERICA	LIBERALL F	N 12 10/08/89 \$62,000	STOBIE 89-NC-347		
POLY(ETHERARYLENE ETHERS), NOVEL HIGH PERFORMANCE THERMOPLASTICS					
VIRGINIA POLYTECHNIC INST & STATE UNIV	HARRY GIBSON	N 12 05/07/89 \$185,441	ULRICH 89-NC-310		
THREE DIMENSIONAL PARTICLE GRATING NONLINEAR OPTICAL AMPLIFIERS					
UNIV OF WYOMING	CARRICK KEITH	N 12 11/07/89 \$253,315	ULRICH 89-NC-313		
ENHANCED QUANTUM DOT NONLINEAR OPTICAL MATERIALS					
SATELLITE COLUMBUS LABS	WELLING PETER	N 12 17/07/89 \$121,900	ULRICH 89-NC-316		
PREPARATION AND CHARACTERISATION OF POLY CI AND TRI-ACETYLENES AS MATERIALS FOR NON-LINEAR OPTICS					
UNIV POLYTECHNIC OF EDINBURGH	MILBURN G. H. W.	N 12 24/07/89 \$38,731	ULRICH 89-NC-321		
NOBEL SYMPOSIUM IN CHEMISTRY: CONJUGATED POLYMERS AND RELATED MATERIALS: THE INTERCONNECTION OF CHEMICAL & ELECTRONIC STRUCTURE					
UNIV OF CALIFORNIA	MEEGER ALAN	N 12 25/07/89 \$10,000	ULRICH 89-NC-322		

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TITLE TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TODAY
INVESTIGATION OF COMPOSITIONAL MODIFICATIONS OF POTASSIUM TITANYL PHOSPHATE FOR NONLINEAR OPTICAL APPLICATIONS	UNIVERSITY OF TORONTO	MIKE GLAZER	N 12 25/07/89 \$90,221	ULRICH 89-NC-323	
PHASE EQUILIBRIUM STUDIES IN NZP SYSTEMS	PENNSYLVANIA STATE UNIVERSITY	AGRAWAL DINESH	N 12 31/07/89 \$112,810	ULRICH 89-NC-3331	
PROCESSING, FABRICATION, CHARACTERIZATION, AND DEVICE DEMONSTRATION OF HIGH TEMPERATURE SUPERCONDUCTING CERAMICS	EDING CO.	THOMAS LUHMANN	R 12 03/08/89 \$451,425	ULRICH 89-NC-3442	
MONODEPOLITAXY A "UNIVERSAL" ROUTE TO ORIENTED MATERIALS	UNIV OF CALIFORNIA	SMITH PAUL	N 12 14/08/89 \$250,000	ULRICH 89-NC-3449	
SYNTHESIS OF NEW ORGANIC AND ORGANOMETALLIC MATERIALS WITH SECOND-ORDER NONLINEAR OPTICAL PROPERTIES	DET PROPSLICK LABORATORY	MARDER SETH	N 12 16/08/89 \$201,300	ULRICH 89-NC-353	
(URI) STUDY OF MECHANICAL DAMPING IN AIRCRAFT TYPE MATERIAL	IOWA STATE UNIV OF SCIENCE AND TECH	DAYAL VINAY	N 12 29/08/89 \$71,255	ULRICH 89-NC-355	
(URI) PHASE BEHAVIOR, STRUCTURE, AND PROPERTIES OF MCDEL BLOCK COPOLYMERS	UNIV OF MINNESOTA	BATES FRANK	N 12 29/08/89 \$247,363	ULRICH 89-NC-356	
(URI) PHASE BEHAVIOR STRUCTURE AND PROPERTIES OF MCDEL BLOCK COPOLYMERS	UNIV OF MINNESOTA	BATES FRANK	N 12 06/09/89 \$247,363	ULRICH 89-NC-360	
NEW POLYMERS FOR NONLINEAR OPTICS APPLICATIONS	NORTHERN ILLINOIS UNIVERSITY	SPANGLER CHARLES	N 12 06/09/89 \$242,241	ULRICH 89-NC-361	

TITLE	TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE
				AMOUNT	PRCPUSAL *	PRCPUSAL *	START DATE
							TO/T AMT
MICRODESIGNING OF LIGHTWEIGHT/HIGH STRENGTH CERAMIC MATERIALS		UNIV OF WASHINGTON	AKSAY	N 06 07/09/89 \$250,000	0	ULRICH	89-NC-364
THE DESIGN, SYNTHESIS AND CHARACTERIZATION OF ORGANIC, ORGANOMETALIC AND POLYMERIC MATERIALS WITH THIRD-ORDER OPTICAL NONLINEARITIES	CALIFORNIA INSTITUTE OF TECHNOLOGY	ROBERT GRUBBS		N 12 11/09/89 \$312,675	12	ULRICH	89-NC-365
ULTRA-HIGH BIAXIAL ORIENTATION OF POLYMERS	FUJIGAS - THE STATE UNIVERSITY (ENGR)	PAE LIN	K	N 12 11/09/89 \$95,638	12	ULRICH	89-NC-366
(URI) MOLECULAR PROPERTIES OF DONOR-ACCEPTOR POLYENES: A STUDY OF NONLINEAR OPTICAL RESPONSES	NORTHERN ILLINOIS UNIVERSITY	MARK CHHIU-TSU		N 12 12/09/89 \$82,838	12	ULRICH	89-NC-367
SYMPONIUM ON MATERIALS SYNTHESIS; UTILIZING BIOLOGICAL PROCESSES	FATTELLE PACIFIC NORTHWEST LABORATORIES	ALPER ALPER		N 06 12/09/89 \$5,300	0	ULRICH	89-NC-368
(URI) HYDROLYSIS REACTION AND PLUTONIUM DECAY IN SILICA GELS	TEXAS CHRISTIAN UNIVERSITY	ZERDA TADEUSZ		N 12 12/09/89 \$58,347	12	ULRICH	89-NC-369
MICRODESIGNING OF LIGHTWEIGHT/HIGH STRENGTH CERAMIC MATERIALS	UNIV OF WASHINGTON	AKSAY	I	N 12 12/09/89 \$675,000	12	ULRICH	89-NC-370
(URI) SUBMICRON PHOTOLITHOGRAPHY OF POLYMERS: FUNDAMENTAL PROCESSES AND DEVICE APPLICATIONS	RICE UNIVERSITY	SAUERBREY ROLAND		N 12 13/09/89 \$260,000	12	ULRICH	89-NC-371
(URI) ELECTRIC PROPERTIES OF POLY (FLUORO ACETYLENE)	CASE WESTERN RESERVE UNIVERSITY	LANDO JEROME		N 12 13/09/89 \$245,326	12	ULRICH	89-NC-372

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TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SOLID-STATE TUNABLE LASERS BASED ON ORGANIC DYES IN SCL-GEL DERIVED MATRICES	UNIV OF CALIFORNIA	MACKENZIE J	N 12 13/09/89 \$75,000	W ULRICH 89-NC-373	
(URI) NONLINEAR OPTICAL SPECTROSCOPY AND WAVEGUIDING IN POLYMERS	UNIV OF MARYLAND, BALTIMORE CAMPUS	GARY CARTER	N 12 13/09/89 \$111,927	W ULRICH 89-NC-374	
(URI) INTELLIGENT PROCESSING OF ADVANCED COMPOSITES	TUFTS UNIVERSITY	SUING NAKHO	N 12 13/09/89 \$106,779	W ULRICH 89-NC-375	
(URI) OPTICAL CONSTANTS OF POLYMERS	UNIV OF ALABAMA	BAIRD JAMES	N 12 13/03/89 \$65,187	W ULRICH 89-NC-376	
(URI) DESIGN, SYNTHESIS, AND CHARACTERIZATION OF NOVEL PHASES OF METAL-ORGANIC SOLIDS CONTAINING EXTENDED ELECTRONIC STRUCTURES	WASHINGTON STATE UNIVERSITY	CRCSEY GLENN	N 12 13/03/89 \$245,996	W ULRICH 89-NC-377	
(URI) CONTROL OF MOBILITY IN MICROSTRUCTURED POLYMER MATERIALS	UNIV OF MINNESOTA	LOGGE TIMOTHY	N 12 13/C9/89 \$159,671	W ULRICH 89-NC-378	
(URI) NEW METHODS FOR DIRECT PRODUCTION OF BENZIMIDAZOLE STRUCTURAL CAPTURE	FARKE UNIVERSITY	ARMENIADES CONSTANTINE	N 12 13/09/89 \$197,228	W ULRICH 89-NC-379	
(URI) DIRECT IMAGING OF THE SURFACE MICROSTRUCTURE OF DIELECTRIC MATERIALS USING AN ATOMIC FORCE MICROSCOPE	UNIV OF MAINE	WILLIAM UBERTI	N 12 13/09/89 \$169,854	W ULRICH 89-NC-380	
(URI) TRANSITION METAL SUBSTITUTED OLIGO AND POLYSILANE MATERIALS	UNIV OF TEXAS	FANNELL KEITH	N 12 13/09/89 \$194,709	W ULRICH 89-NC-382	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TRN AWT
(URI) ELECTRONIC APPLICATIONS OF ULTRATHIN POLYMER FILMS UNIV OF TEXAS	FERRARI	N 13/09/89 \$201,226	ULRICH 89-NC-383	
(URI) PHYSICAL PROPERTY CHARACTERIZATION STUDIES OF HIGH-PERFORMANCE (E POLYMERS AND COMPOSITES BY THERMALLY STIMULATED CURRENT SPECTRO LEEMSON UNIVERSITY	MICHAEL ELLISON	N 13/09/89 \$152,763	ULRICH 89-NC-384	
(URI) A STUDY OF THE EARLY PHASES OF AN ADDITIVE REACTION BY NUCLEATION IN AN EXPANSION CLOUD CHAMBER UNIV OF MISSOURI	SCHMITT	N 13/09/89 \$80,385	ULRICH 89-NC-385	
(URI) MATERIALS FOR ELECTROOPTIC DEVICES UNIV OF PITTSBURGH	JOEL FALK	N 13/09/89 \$331,977	ULRICH 89-NC-386	
(URI) MOLECULAR MICROCOMPOSITES DERIVED FROM THE INTERCALATION OF CONDUCTIVE POLYMERS IN LAYERED METAL-EXCISE XEROGELS WICHITA STATE UNIVERSITY	MERCOURI KANACZIDIS	N 13/09/89 \$133,747	ULRICH 89-NC-387	
(URI) MICROSTRUCTURE-FRACTURE TOUGHNESS RELATIONSHIP OF ADVANCED GRAPHITE/POLYMER COMPOSITES TUSKESEE INSTITUTE	AGLAN MERSHMAN	N 13/09/89 \$245,620	ULRICH 89-NC-388	
(URI) DEFECT CONTROL OF CARBON FIBER THERMOPLASTIC COMPOSITES CLARKSON UNIVERSITY	GREGORY CAMPBELL	N 13/09/89 \$250,000	ULRICH 89-NC-389	
(URI) NONLINEAR OPTICAL PROPERTIES OF FILLERINATED POLYACETYLENE UNIV OF CENTRAL FLORIDA	HEINCEN	N 13/09/89 \$75,222	ULRICH 89-NC-390	
(URI) DIFFUSION OF DIELECTRIC PARTICLES IN POLYMER NETWORK CHOWDHURY	ASLAM	N 13/09/89 \$191,355	ULRICH 89-NC-391	

TITLE (CONTRACT NUMBER)	INVESTIGATOR	TYPE/MONTHS RECEIVED ACCOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TERM AMT	
				TYPE/MONTHS RECEIVED ACCOUNT	STATUS PROGRAM MANAGER PROPOSAL #
(URI) NOVEL THERMOPLASTIC LIQUID CRYSTAL BLOCK COPOLYMERS UNIV OF CINCINNATI	ROSE	N 12 13/09/99 \$168,761	ULRICH 89-NC-392		
(URI) INFRARED DIPOLESCISM AS A PROBE OF POLYMER BLEND MICROSTRUCTURE AND DYNAMICS UNIV OF CINCINNATI	POLLACK STEVEN	N 12 13/09/89 \$72,776	ULRICH 89-NC-392		
(URI) STEREOLITHOGRAPHY FOR THICK-SECTION COMPOSITES CLARK UNIVERSITY	EGALE AMOD	N 12 14/09/89 \$245,928	ULRICH 89-NC-392		
(URI) COMPUTATIONAL AND EXPERIMENTAL STUDIES OF THE MECHANISMS OF NITRIFICATION OF POLYSILOXANES CLARK COLLEGE	MARIAPP YITBAREK	N 12 14/09/89 \$131,736	ULRICH 89-NC-392		
(URI) MOLECULAR STRUCTURE AND DYNAMICAL CHARACTERISTICS OF ADVANCED POLYMERIC MATERIALS USING STEP-SCAN FTIR DUKE UNIVERSITY	PALMER RICHARD	N 12 14/09/89 \$157,245	ULRICH 89-NC-392		
(URI) TERNARY CHALCOFYLITE COMPOUNDS & ORGANIC POLYMER-SILICA COMPOSITES FOR OPTICAL, ELECTRONIC & STRUCTURAL APPLICATIONS CLARKMMA STATE UNIVERSITY	CZEKAK CORINNA	N 12 14/09/89 \$314,182	ULRICH 89-NC-392		
(URI) READING AND WRITING AT THE SINGLE MOLECULE LIMIT: SITE SPECIFIC RESPONSE FROM POLYMERS UNIV OF CALIFORNIA	KOHLER BRYANE	N 12 14/09/89 \$160,361	ULRICH 89-NC-392		
(URI) OPTICAL PROPERTIES OF SUSPENSIONS OF (ORGANIC) MICRO-PARTICLES UNIV OF LOWELL	FICOD MICHAEL	N 12 14/09/89 \$67,600	ULRICH 89-NC-392		
(URI) POLYMERS WITH ACYLINEAR OPTICAL PROPERTIES UNIV OF ALABAMA	MCHANAS SAMUEL	N 12 14/09/89 \$3,255,390	ULRICH 89-NC-400		

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(URI) POLYALKYLENE PHOSPHATES AS LIQUID CRYSTALS AND IONIC CONDUCTORS	UNIV OF ALABAMA	GRAY GARY	N 12 14/09/89 \$231,632	ULRICH	89-NC-401
(URI) CONDUCTING POLYMERS IN ZEOLITE HOSTS-DESIGN OF ELECTRONIC NANOSTRUCTURES	UNIV OF NEW MEXICO	EFIN THOMAS	N 12 14/09/89 \$192,616	ULRICH	89-NC-402
(URI) STRUCTS IN SILICON CHEMISTRY	FORT DAKOTA STATE UNIVERSITY	BOUDJUK PHILIP	N 12 14/09/89 \$248,909	ULRICH	89-NC-403
(URI) THERMO DYNAMICS AND RHEOLOGY OF SUPERCRITICAL GAS/POLYMER PROCESSING	WAYNE STATE UNIVERSITY	GULARI ESIN	N 12 14/09/89 \$147,245	ULRICH	89-NC-404
(URI) COMPREHENSIVE EVALUATION OF CONSTITUTIVE PROPERTIES OF POLYMER CONCRETE MATERIALS AND RESEARCH EQUIPMENT FOR CONSTITUTIVE	CARTH CAROLINA A&M STATE UNIVERSITY	SALAMI M. RESZ	N 12 14/09/89 \$245,916	ULRICH	89-NC-405
(URI) ARTIFICIAL DI-ELECTRIC POLYMERIC MATERIALS	NEW JERSEY INSTITUTE OF TECHNOLOGY	CREBEL HAIM	N 12 14/09/89 \$89,770	ULRICH	89-NC-406
(URI) NANOSTRUCTURAL ASPECTS OF ADhesion AT METAL-POLYMER INTERFACES	Drexel University	DINARCO	N	ULRICH	89-NC-407
(URI) THREE-DIMENSIONAL NONLINEAR OPTICAL EFFECTS AND COMPUTATIONAL LOGIC ELEMENTS USING POLYMERS	CITY COLLEGE - CLNY	ALFANIC ROBERT	N 12 14/09/89 \$156,190	ULRICH	89-NC-408
(URI) OPTICAL STUDIES OF GLASSES ENDODUCED WITH INORGANIC IONS AND ORGANIC DYES	ALABAMA A&M UNIVERSITY	READY E.	N 12 15/09/89 \$241,932	ULRICH	89-NC-409

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROPOSAL #	INITIATE START DATE TOT AMT
(URI) RELAXATION PROCESSES IN SUPERCOOLED LIQUIDS NEAR THE GLASS TRANSITION KANSAS STATE UNIVERSITY	SORENSEN CHRISTOPHER	N 12 15/09/89 \$147,415	ULRICH 39-NC-410	
(URI) OPTICAL PROPERTIES AND APPLICATIONS OF ELECTRIC MICROPARTICLES UNIV OF GEORGIA	MOSSEGG THOMAS	N 12 15/09/89 \$120,223	ULRICH 89-NC-411	
(URI) STRUCTURE-FRACTURE TOUGHNESS RELATIONSHIP IN RUBBER COMPCOMPS LAW WESTERN RESERVE UNIVERSITY	MOET ABDELSAME	N 12 15/09/89 \$163,296	ULRICH 89-NC-412	
(URI) CHARACTERIZATION OF POLYMER STABILIZED COLLOIDAL SCLS WITH LIGHT SCATTERING UNIV OF PITTSBURGH	POST ALBERT	N 12 15/09/89 \$189,520	ULRICH 89-NC-413	
(URI) MOLECULAR ELECTRONIC BASIS OF NONLINEAR OPTICAL BEHAVIOR IN POLYMERS, QUADRATIC DYES, AND POLYMERIZED QUADRATIC SCOTT UNIV OF CALIFORNIA	GARY SCOTT	N 12 15/09/89 \$222,905	ULRICH 89-NC-414	
(URI) PREPARATION AND CHARACTERIZATION OF NEW HIGH-TEMPERATURE 8-TO-14 UM INFRARED-TRANSMITTING CHALCOGENIDE GLASSES ICHA STATE UNIV OF SCIENCE AND TECH MARTIN	STEVE MARTIN	N 12 15/09/89 \$134,300	ULRICH 39-NC-415	
1990 GORDON CONFERENCE ON POLYMERS (WEST) NEW ALMAGEN RESEARCH CENTER	RABOLT JCHN	N 06 19/09/89 \$5,300	ULRICH 89-NC-417	
LADDER POLY(1-EISOCAPROXYLIC ACETYLENE)) UNIV MASSACHUSETTS, UNIVERSITY	WIGGINS ROBERT	N 12 20/09/89 \$585,367	ULRICH 89-NC-418	
(CONDUCTING POLYMERS, IN ZEOLITE HOSTS - DESIGN OF ELECTRONIC STRUCTURES)	THOMAS	N 12 20/09/89 \$192,516	ULRICH 89-NC-419	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGED PROPOSAL #	INITIATE START DATE TGT AMT
A APPROXIMATE FULLY CRYSTALLINE POLY(ETHEROCYCLES)	FOXMAN, BRUCE	N 12 25/09/89 \$208,109	ULRICH 89-NC-420	
SYNOPSIS ON BETTER CERAMICS THROUGH CHEMISTRY IV	CLARK, DAVID	N 06 26/09/89 \$24,250	ULRICH 89-NC-421	
MATERIALS RESEARCH SOCIETY				
HIGH PRESSURE IMPEDANCE, INFRARED AND RAMAN SPECTROSCOPY STUDIES OF EAST IONIC CONDUCTING BORATE GLASSES	WILLIAM, CLARK	N 12 03/07/89 \$148,672	WILKES 89-NC-308	
CARNEGIE-MELLON UNIVERSITY				
APPLICATION OF PHOTOELECTRO-CHEMICAL IMPEDANCE SPECTROSCOPY FOR CHARACTERIZING ALKALINE BATTERY MATERIALS	MACDONALD, D	N 12 17/07/89 \$102,761	WILKES 89-NC-317	
T & T INTERNATIONAL				
MICROCHEMISTRY AND IONIC MOTION OF ZRC ₂ O ₃ -ALUMINA COMPOSITE ELECTROLYTES	HELLSTROM, ERIC	N 12 27/07/89 \$98,450	WILKES 89-NC-324	
UNIV OF WISCONSIN				
ELECTROCHEMICAL SYNTHESIS OF ULTRATHIN FILM COMPOSITE MEMBRANES	MARTIN, CHARLES	R 12 30/08/89 \$130,401	WILKES 89-NC-357	
TEXAS A AND M UNIVERSITY				
ELECTROCHEMICAL SYNTHESIS OF ULTRATHIN FILM COMPOSITE MEMBRANES	MARTIN, CHARLES	R 12 06/09/89 \$130,401	WILKES 89-NC-363	
T & T INTERNATIONAL				
PRODUCT CHANNELS IN PHOTODECOMPOSITION OF SMALL MOLECULES	SLANGE, TOM	N 12 05/07/89 \$145,928	WODARCZYK 89-NC-311	
UNIVERSITY OF TORONTO				
FUSION OF OXYGEN CHEMICAL LASER STUDIES, II	WALTER, JR.	N 12 31/07/89 \$245,346	WODARCZYK 89-NC-329	\$260,574 01/11/89 \$495,632
PACIFIC APPLIED RESEARCH				

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PHYSICAL CHEMISTRY OF ENERGETIC NITROGEN COMPOUNDS	ROBERT COMPTON	N 12 01/08/89 \$100,000	WODARCZYK 89-NC-336	
SPECTROSCOPY AND DYNAMICS OF ENERGETIC AMINES	GILBERT JULIANA	N 12 01/08/89 \$100,000	WODARCZYK 89-NC-337	
ELECTRONICALLY EXCITED MOLECULES: REACTION KINETICS AND EMISSION OF LIGHT INFRARED SPECTROSCOPY ELECTRONIC EMISSION FROM MONOXY	C. BRADLEY	N A 02/08/89 \$90,000	WODARCZYK 39-NC-340	\$90,000 01/11/89 \$90,000
COMPLEMENTARY IR AND COHERENT RAMAN STUDIES OF POLYMER SPECIES	THOMAS CYKE	N 12 03/08/89 \$100,000	WODARCZYK 89-NC-341	
A STUDY OF THE COLLISIONAL EXCITATION OF UV-EMISSION BY ENERGETIC ATMOSPHERIC SPECIES	MUNTZ E. P.	N 12 14/08/89 \$0	WODARCZYK 89-NC-350	
UNIV OF SOUTHERN CALIFORNIA				

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FUTURE RESEARCH DIRECTIONS IN CIRCUITS, SYSTEMS, AND SIGNAL PROCESSING	UNIV OF ILLINOIS	VAN VALKENBURG	P.	N 12 16/09/89 \$71,500	CRAIG 89-NE-339		
ORGANIZATION OF THE SECOND INTERNATIONAL CONFERENCE ON INDIUM PHOSPHIDE AND RELATED MATERIALS	INST. OF ELECTRICAL & ELECTRONICS ENGRG	COUTTS	TIMOTHY	N 10 18/08/89 \$5,000	CRAIG 89-NE-340		
OPTICAL INTERCONNECTS FOR A VISUAL PROCESSING SYSTEM	UNIV OF CALIFORNIA, SAN DIEGO	GUEST	CLARK	N 24 21/06/89 \$279,506	CRAIG 89-NE-342		
EFFICIENCY OF THE BROAD-BAND EMITTING MATERIALS	LAWRENCE BERKELEY NATIONAL LABORATORY	LEMPICKI	ALEXANDER	N 36 25/08/89 \$384,576	CRAIG 89-NE-345		
WORKSHOP ON OPTICAL NEURAL NETWORKS	UNIV OF COLORADO	WAGNER	KELVIN	N 06 07/09/89 \$22,570	CRAIG 89-NE-355		
VLSI IMPLEMENTATION OF NEUROMORPHIC LEARNING NETWORKS	UNIVERSITY OF TORONTO	ALSPECTOR	JOSHUA	N 23 20/09/89 \$495,000	CRAIG 89-NE-408	\$159,000	01/03/90
ELECTRONIC REALIZATION OF A HOPFIELD NET WITH SUPERVISED LEARNING SCHEME	STUTTERING ILLINOIS UNIVERSITY	HU	C.L.J.	N 12 26/09/89 \$64,571	CRAIG 89-NE-414		
CONNECTIONIST LEARNING ALGORITHMS FOR TEMPORAL PROCESSING AND MULTI-SCALE SEARCH	NORTHEASTERN UNIVERSITY	WILLIAMS	RONALD	N 36 03/07/89 \$306,124	GILES 89-NE-309		
BY INFORMATION THEORETIC APPROACH TO DISTRIBUTED INFERENCE AND LEARNING	CALIFORNIA INSTITUTE OF TECHNOLOGY	GOODMAN	RODNEY	N 28 05/07/89 \$340,000	GILES 89-NE-311		

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THERMODYNAMIC NEURAL NETWORK MODELS FOR HIGH-SPEED RESOURCE ALLOCATION UNIV OF MARYLAND	KANAL LAVEEN	N 36 11/07/89 \$283,266	GILES 89-NE-318	
WAREWARE IMPLEMENTATIONS AND APPLICATIONS OF NEURAL NETWORK ARCHITECTURES JET PROPULSION LABORATORY	THAKCOR A.P.	N 18 13/07/89 \$400,000	GILES 89-NE-320	\$200,000 01/10/89 \$400,000
CONFERENCE OF CELLULAR AUTOMATA: THEORY AND EXPERIMENT LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV).	GUTOWITZ HOWARD	N 06 14/07/89 \$6,000	GILES 89-NE-321	
PROPOSAL FOR A COMPUTER AIDED DESIGN PACKAGE FOR DESIGNERS OF DIGITAL OPTICAL COMPUTERS FUTTERS - THE STATE UNIVERSITY	MURDOCCA FILES	N 36 17/07/89 \$791,894	GILES 89-NE-322	
DYNAMICS OF DISTRIBUTED COMPUTATION XEROX RESEARCH CENTER	HUBERMAN BERNARDO	N 24 18/07/89 \$265,707	GILES 89-NE-323	
VLSI IMPLEMENTATION OF NEUROMORPHIC LEARNING NETWORKS SELLCORE	ALSPECTOR JOSHUA	N 23 18/C7/89 \$5,198,230	GILES 89-NE-324	\$212,000 01/12/89 \$519,823
STUDY OF III-V OTOELECTRONIC NEURAL BUILDING BLOCKS UNIV OF COLORADO	PANKOVE JACQUES	N 36 21/07/89 \$791,664	GILES 89-NE-326	
PULSE CODE BIOLOGICALLY MOTIVATED NEURAL-TYPE MCS CIRCUITS OFFICE OF NAVAL RESEARCH	LAU CLIFF	N 24 24/07/89 \$80,000	GILES 89-NE-327	\$40,000 01/10/89 \$80,000
ORGANIZATION OF 1990 MEETINGS OF INTERNATIONAL NEURAL NETWORK SOCIETY JOINTED WITH IEEE INTERNATIONAL NEURAL NETWORK SOCIETY	SZU HAROOL	N 12 02/08/89 \$10,000	GILES 89-NF-332	\$10,000 01/10/89 \$10,000

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER	INITIATE START DATE FOR AMT
NEURAL NETWORKS: ARCHITECTURAL ANALYSIS FARAL RESEARCH LABORATORY	SZU HAROLD	N 02/08/89 \$50,000	GILES	89-NE-333
FEATURE EXTRACTION AND PROBLEM PARTICNING FOR SCALING NEURAL-NETWORKS CREGEN GRADUATE CENTER FOR STUDY & RESEARCH	LEEN TODD	N 07/08/89 \$172,220	GILES	89-NE-334
AN OPTOELECTRONIC REALIZATION OF NEURAL NETWORK MODELS CALIFORNIA INSTITUTE OF TECHNOLOGY	YARIV AMNON	R 11/09/89 \$374,260	GILES	89-NE-336
CAS-SOLID TRANSPORT DYNAMICS IN CHEMICAL VAPOR DEPOSITION UNIV OF GEORGIA	LEE R. HOWARD	N 10/07/89 \$156,462	LITTON	89-NE-315
LASER POOLING OF THE KINETICS AND DYNAMICS OF III-V SEMICONDUCTOR GROWTH UNIV OF COLORADO	LEONE STEPHEN	R 10/07/89 \$334,315	LITTON	89-NE-317
KINETIC ASPECTS OF LATTICE MISMATCH IN MOLECULAR BEAM EPITAXIAL CROWTH ON PLANAR AND PATTERNED SUBSTRATES UNIV OF SOUTHERN CALIFORNIA	MADHUKAR ANUPAM	R 28/07/85 \$600,000	LITTON	\$200,000 01/12/89 \$600,000
ELECTRONIC STRUCTURE AND MECHANICAL PROPERTIES OF GRAIN BOUNDARIES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	JOANACPOLLOS JOHN	R 01/08/89 \$448,500	LITTON	36 A 89-NE-331
MRS SYMPOSIUM ON "IMPERFECTIONS, DEFECTS, AND DIFFUSION IN SEMICONDUCTORS: BULK AND LAYERED STRUCTURES MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	N 28/08/89 \$5,000	LITTON	12 89-NE-346
MRS SYMPOSIUM IS ON "PROPERTIES OF III-V SEMICONDUCTORS: BULK CRY, EPITAXIAL FILMS, QUANTUM WELL STRUCTURES, & DILUTE MAGNETIC SYS MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	N 28/08/89 \$5,000	LITTON	06 89-NE-347

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INDIUM AND ANTIMONY BASED III-V MICROSTRUCTURES WITH NOVEL ELECTRONIC PROPERTIES	CALIFORNIA INSTITUTE OF TECHNOLOGY	MCGILL	T	R 36 28/09/89 \$765,416	LITTON 89-NE-348		
FUSION-NUCLEATION HETEROPITAXY IN POORLY LATTICE MATCHED SYSTEMS	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	THOMFSSON	CARL	R 36 28/08/89 \$505,690	LITTON 89-NE-349		
EVALUATION OF THE FEASIBILITY & THE CCST OF MCCOTE EPI TAXIAL LAYER GROWN BY MOLECULAR BEAM EPITAXY ON CTE, CdZNT & GaAs SUBSTRATE	FORTLAND STATE UNIVERSITY	FAURIE	JEAN-PIERRE	N 06 31/08/89 \$39,312	A LITTON 89-NE-351	\$39,312	15/12/89
DECAY OF MOLECULES AT CORRUGATED SOLID SURFACES AND THIN FILMS	LEUNG	PUI-TAK		N 24 06/09/89 \$44,859	LITTON 89-NE-353		
RELAXATION IN COMPLEX SYSTEMS (CONFERENCE)	NGAI	K.		N 12 07/C9/89 \$67,000	C LITTON 89-NE-354		
NAVAL RESEARCH LABORATORY	STRANGFELLOW	GERALD		R 36 13/09/89 \$95,888	LITTON 89-NE-359		
ELUCIDATION OF DENSE GROWTH MECHANISMS	UNIV OF UTAH	YEE	SINCLAIR	N 36 27/09/89 \$320,460	LITTON 89-NE-415		
A NEW OPTICAL-POLING SYSTEM FOR VLSI TESTING USING PHASE MODULATION AND DIFFRACTION PATTERN PRACTICING BEAMS	CORNELL UNIVERSITY	RAJ	RISHI	N 36 06/07/89 \$375,000	A ROSENSTEIN 89-NE-313	\$120,000	01/12/89
INTERFACE PHENOMENA IN METAL MATRIX COMPOSITES	A. STARKE, JR.	J. A. WERT E. E.				\$134,939	01/01/90
FUNDAMENTAL CONCEPTS RELATING LOCAL ATOMIC ARRANGEMENT, DEFORMATION AND FRACTURE OF INTERMETALLIC ALLOYS	UNIV OF VIRGINIA					\$419,894	89-NE-314

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						AMOUNT	PROPOSAL #
THE EFFECT OF SURFACE MICROSTRUCTURE ON THE ELECTROCHEMICAL BEHAVIOR OF SILIC ELECTRODES	GEORGE WASHINGTON UNIVERSITY	DE LEVIE	ROBERT	N 24 11/08/89 \$390,038	ROSENSTEIN 89-NE-337		
HYDROGEN DIFFUSION AND TRAPPING IN HIGH-STRENGTH LIGHTWEIGHT ALLOYS	SRI INTERNATIONAL	PJUNC	BRUCE	N 24 21/08/89 \$169,486	ROSENSTEIN 89-NE-343		
MICROSTRUCTURAL EFFECTS IN SILICIDE FILM GROWTH	STATE UNIVERSITY OF NEW YORK	HARRIS	STEWART	N 36 14/09/89 \$286,752	ROSENSTEIN 89-NE-362		
COMPUTATIONAL AND EXPERIMENTAL INVESTIGATION OF BOUNDARY SCATTERING IN THIN CONDUCTORS	SWALING GREEN STATE UNIVERSITY	FOUGHTON	ROBERT	N 36 14/09/89 \$271,060	ROSENSTEIN 89-NE-363		
ALLIYING AND STRENGTH IN REFRACTORY BERYLLIDES	STATE UNIVERSITY OF NEW YORK	CHAKI	TARUN	N 36 14/09/89 \$306,382	ROSENSTEIN 89-NE-354		
NUCLEATION AND GROWTH OF NANoclUSTERS	WASHINGTON STATE UNIVERSITY	CROWE	CLAYTON	N 36 14/09/89 \$750,000	ROSENSTEIN 89-NE-355		
EFFECT OF APPLIED ENERGY AND SLIP VECTOR ON HIGH CYCLE FATIGUE IN INTERMETALLIC COMPOUNDS	CARNEGIE MELLON COLLEGE	BAKER	IAN	N 36 14/09/89 \$525,296	ROSENSTEIN 89-NE-367		
TRANSFORMATION AND DUCTILE-DUCTILE PHASE TOUGHENING IN GAMMA + BETA TITAN-BASE ALLOYS	CLEMSON UNIVERSITY	GRUJICIC	MICA	N 36 14/09/89 \$147,326	ROSENSTEIN 89-NE-369		
SURFACE AND SILVEAGE SEGREGATION AND THE INFLUENCE OF MAGNETISM	SYRACUSE UNIVERSITY	COLBEN	PETER	N 36 14/09/89 \$268,176	ROSENSTEIN 89-NE-370		

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TITLE (CONT.)
INSTITUTION

MICROSTRUCTURE EVOLUTION IN THE PRESENCE OF CONSTRAINTS AND ITS
IMPLICATIONS ON THE PROPERTIES OF Mg-Li AND Ni-Al COMPOSITES
UNIV OF CINCINNATI
SEKHAR

TITLE (CONT.)	INVESTIGATOR	INITIAL START DATE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
MICROSTRUCTURE EVOLUTION IN THE PRESENCE OF CONSTRAINTS AND ITS IMPLICATIONS ON THE PROPERTIES OF Mg-Li AND Ni-Al COMPOSITES UNIV OF CINCINNATI SEKHAR	JAI	N 36 14/09/89 \$391,962	ROSENSTEIN 89-NE-371	

GRAIN BOUNDARY EFFECTS IN ORDERED INTERMETALLIC ALCuS
ILLINOIS INSTITUTE OF TECHNOLOGY

COLLAR
MAREK

INVESTIGATOR	INITIAL START DATE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
GRAIN BOUNDARY EFFECTS IN ORDERED INTERMETALLIC ALCuS ILLINOIS INSTITUTE OF TECHNOLOGY	COLLAR MAREK	N 36 14/09/89 \$424,976	ROSENSTEIN 89-NE-373

FRACTAL CHARACTERIZATION AND PREDICTION OF ALUMINIDE
MICROSTRUCTURES USING DIGITAL IMAGE PROCESSING
TENNESSEE TECHNOLOGICAL UNIVERSITY

HOY
CARRELL
E.

INVESTIGATOR	INITIAL START DATE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
FRACTAL CHARACTERIZATION AND PREDICTION OF ALUMINIDE MICROSTRUCTURES USING DIGITAL IMAGE PROCESSING TENNESSEE TECHNOLOGICAL UNIVERSITY	HOY CARRELL E.	N 36 14/09/89 \$271,095	ROSENSTEIN 89-NE-374

MODEL DEVELOPMENT FOR SUBGRAIN GROWTH DURING RECOVERY IN Al, Cu,
Ni, AND Fe
UNIV OF TEXAS

VARMA
SHAILENCRA

INVESTIGATOR	INITIAL START DATE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
MODEL DEVELOPMENT FOR SUBGRAIN GROWTH DURING RECOVERY IN Al, Cu, Ni, AND Fe UNIV OF TEXAS	VARMA SHAILENCRA	N 36 14/09/89 \$447,201	ROSENSTEIN 89-NE-375

THE EFFECT OF SURFACE MICROSTRUCTURE ON THE ELECTROCHEMICAL
BEHAVIOR OF SILIC ELECTRODES
GEORGETOWN UNIVERSITY

CE LEVIE
ROBERT

INVESTIGATOR	INITIAL START DATE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
THE EFFECT OF SURFACE MICROSTRUCTURE ON THE ELECTROCHEMICAL BEHAVIOR OF SILIC ELECTRODES GEORGETOWN UNIVERSITY	CE LEVIE ROBERT	N 36 14/09/89 \$390,033	ROSENSTEIN 89-NE-377

USE OF PLEIOTH WAVES FOR QUANTITATIVE EVALUATION OF SURFACE
IRREGULARITIES
UNIV OF PUERTO RICO

ALEMAR
JOSE
T.

INVESTIGATOR	INITIAL START DATE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
USE OF PLEIOTH WAVES FOR QUANTITATIVE EVALUATION OF SURFACE IRREGULARITIES UNIV OF PUERTO RICO	ALEMAR JOSE T.	N 36 14/09/89 \$162,360	ROSENSTEIN 89-NE-379

A STUDY OF FUSION ZONE MORPHOLOGY FOR METAL MATRIX COMPOSITES
UNIV OF TENNESSEE / SPACE INSTITUTE

MCCAY
FREO

INVESTIGATOR	INITIAL START DATE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
A STUDY OF FUSION ZONE MORPHOLOGY FOR METAL MATRIX COMPOSITES UNIV OF TENNESSEE / SPACE INSTITUTE	MCCAY FREO	N 36 14/09/89 \$497,634	ROSENSTEIN 89-NE-380

SCANNING TUNNELING MICROSCOPY AND PERFORMANCE MODIFIED SURFACES
UNIV OF CONNECTICUT

OTTER
FREO

INVESTIGATOR	INITIAL START DATE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
SCANNING TUNNELING MICROSCOPY AND PERFORMANCE MODIFIED SURFACES UNIV OF CONNECTICUT	OTTER FREO	N 36 14/09/89 \$310,721	ROSENSTEIN 89-NE-381

A NANOSTRUCTURAL DESIGNING AND CHARACTERIZATION OF HIGH TEMP COMP
MODULATED FILMS IN RELATION TO THE SUPERMALLEUS EFFECT
UNIV OF CALIFORNIA

ZERAFA
FRANCISCO

INVESTIGATOR	INITIAL START DATE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
A NANOSTRUCTURAL DESIGNING AND CHARACTERIZATION OF HIGH TEMP COMP MODULATED FILMS IN RELATION TO THE SUPERMALLEUS EFFECT UNIV OF CALIFORNIA	ZERAFA FRANCISCO	N 36 14/09/89 \$305,537	ROSENSTEIN 89-NE-383

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THE EFFECT OF MICROSTRUCTURE AND ENVIRONMENT ON FATIGUE AND FRACTURE TOUGHNESS OF INTERMETALLIC TIAL ALLOYS	SOUTHERN UNIV.-ACPT. OF MECHANICAL ENG.	NORTH EASTERN UNIVERSITY	A. REZA FIRSHAMS	N 36 14/09/89 \$328,398	ROSENSTEIN 89-NE-385			
MICROSTRUCTURE EVOLUTION IN THE CORROSION/OXIDATION OF METAL ALLOY FILMS	NOWAK	NELVILLE		N 36 14/09/89 \$467,856	ROSENSTEIN 89-NE-387			
PROCESSING AND CHARACTERIZATION OF NANOCRYSTALLINE MATERIALS	IOWA STATE UNIV OF SCIENCE AND TECH	LEONARD CHUMLEY		N 36 14/09/89 \$507,735	ROSENSTEIN 89-NE-389			
THERMOPHYSICAL PROPERTIES OF LIQUID AND SOLID METALS AND SELECTED ALLOYS BY CONTAINERLESS LEVITATION METHODS	FIRE UNIVERSITY	MARGRAVE JOHN		N 36 14/09/89 \$607,679	ROSENSTEIN 89-NE-391			
DEPOSITION OF METALLIC THIN FILMS FROM THE DECOMPOSITION OF INORGANOMETALLIC COMPOUNDS	SYRACUSE UNIVERSITY	SPENCER JAMES		N 36 14/09/89 \$698,214	ROSENSTEIN 89-NE-392			
STUDY OF NUCLEATION AND GROWTH RATES FOR THE PRODUCTION OF FARINICULATE MATERIALS	UNIV OF IOWA	RETHMISCH DAVID		N 36 14/09/89 \$460,696	ROSENSTEIN 89-NE-393			
MECHANICAL BEHAVIOR AND FLOW MECHANISMS IN TAILORED REFRACTORY METAL COMPOSITES	RIGHT STATE UNIVERSITY	WEISS ISAAC		N 36 14/09/89 \$461,291	ROSENSTEIN 89-NE-394			
THERMOECHANICAL PROCESS DESIGN AND OPTIMIZATION FOR AEROSPACE MATERIALS	UNIV OF MISSOURI	EL-GIZAWY AHMED SHERIF		N 36 14/09/89 \$137,150	ROSENSTEIN 89-NE-395			
EXPERIMENTAL AND THEORETICAL STUDIES OF MATRIX-FIBER INTERFACES IN LOW & HIGH TEMP COMP USING ATOMIC FORCE & SCANNING TUNNELING MICROSCOPES	UNIV OF MISSOURI	C. QUINTON		N 36 14/09/89 \$510,101	ROSENSTEIN 89-NE-396			

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TITLE INSTITUTION	INVESTIGATOR	TYPE / MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER . PROPOSAL #	INITIATE START DATE YR AMT
X KNOWLEDGE BASED SYNTHESIS OF MICROSTRUCTURES EXCELSIOR UNIVERSITY	APELIAN	CIRAN	N 14/09/89 \$750,000	ROSENSTEIN 89-NE-397
XIE PROCESSED MICROSTRUCTURES USING REFRactory SILICICIES FOR FIRE ELECTRIC SENSORS AND ACTUATORS NEW JERSEY INSTITUTE OF TECHNOLOGY	A. MISRA	DURGAMADHAB MIS	N 36 20/09/89 \$200,735	ROSENSTEIN 89-NE-407
MICROMECHANISMS OF MONOTONIC AND CYCLIC SUBCRITICAL CRACK GROWTH IN ADVANCED HIGH MELTING POINT LOW-DUCTILITY INTERMETALLICS UNIV. OF CALIFORNIA	RITCHIE	ROBERT	N 36 25/09/89 \$537,955	ROSENSTEIN 89-NE-412
IMPACT BEHAVIOR OF FIBER REINFORCED CERAMIC COMPOSITES UNIV OF WYOMING	COON	DENNIS	N 36 27/09/89 \$375,000	ROSENSTEIN 89-NE-416
THERMODYNAMIC AND KINETIC STABILITY OF REFRACTORY MATERIALS AT ULTRA-HIGH TEMPERATURES NATIONAL INST. OF STANDARDS & TECHNOLOGY	HASTIE	JOHN	N 36 13/09/89 \$375,000	SCHICLER 89-NE-358
CHEMICAL VAPOR DEPOSITION OF ZRTIO ₄ COATINGS FOR OXIDATION PROTECTION OF CARBON/CARBON COMPOSITES LOUISIANA STATE UNIVERSITY	GRIFFIN	GREGORY	N 36 14/09/89 \$214,309	SCHIOLER 89-NE-366
SILICON NITRILE THIN FILMS FOR PASSIVATION OF AL BONCAIDS UNIV OF ARKANSAS	ULRICH	RICHARD	N 36 14/09/89 \$259,702	SCHIOLER 89-NE-368
STATISTICAL METHODS FOR MICROSTRUCTURE CHARACTERIZATION USING ULTRASONIC SCATTERING ILLINOIS INSTITUTE OF TECHNOLOGY	SANTIE	JAFAR	N 36 14/09/89 \$299,124	SCHIOLER 89-NE-372
MICROSTRUCTURAL DESIGN, SYNTHESIS AND PROCESSING OF ADVANCED CERAMIC MATERIALS UNIV OF NOTRE DAME	MILLER	ALBERT	N 36 14/09/89 \$687,780	SCHIOLER 89-NE-374

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TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTH'S RECEIVED AMOUNT	STATUS PROGRAM MANAGER PRCPCL #	INITIATE START DATE TOT AMT
(CVD) PROCESSING OF ALUMINUM NITRIDE CERAMICS: USE OF STERIC STABILIZATION TO CONTROL MICROSTRUCTURE CASE WESTERN RESERVE UNIVERSITY	FEKE	N 36 14/09/89 \$123,222	SCHIOLER 89-NE-378	
FASIC STUDIES IN CERAMIC DIELECTRICS FOR MICROWAVE APPLICATIONS NEW YORK STATE COLLEGE OF CERAMICS	MCHALE ANNA	N 36 14/09/89 \$187,109	SCHIOLER 89-NE-382	
THE DESIGN, PREPARATION AND DEVELOPMENT OF NEW REFRACTORY AND CERAMIC THIN-FILM MATERIALS SYRACUSE UNIVERSITY	SPENCER	N 36 14/09/89 \$606,026	SCHIOLER 89-NE-384	
CHARACTERIZATION OF MECHANICAL BEHAVIOR OF CERAMICS UNDER QUASI-STATIC AND DYNAMIC LOADING UNIV OF OKLAHOMA	KHAN	N 36 14/09/89 \$452,698	SCHIOLER 89-NE-386	
ELECTRON CYCLOTRON RESONANCE PLASMA DEPOSITION OF ADVANCED ELECTRONIC MATERIALS POLYANA STATE UNIVERSITY	RAUPE	N 36 14/09/89 \$504,772	SCHIOLER 89-NE-388	
QUANTITATIVE STUDY OF MICROSTRUCTURAL DAMAGE AND ITS INFLUENCE ON FESTUCIAL STRENGTHS OF CARBON-CARBON COMPOSITES LARKSON UNIVERSITY	YURGARTIS	N 36 14/09/89 \$303,234	SCHIOLER 89-NE-390	
PHOTO-ELECTROSTATIC GRAIN BOUNDARY EFFECTS IN CERAMICS NEW YORK STATE COLLEGE OF CERAMICS	COROADO	N 36 15/09/89 \$397,002	SCHIOLER 89-NE-398	
SCALING PROCESSING OF THIN-FILM LEAD GERMANATE FERROELECTRICS TUFTS UNIVERSITY	RYDER, JR.	N 36 15/09/89 \$318,991	SCHIOLER 89-NE-399	
GROWTH AND CHARACTERIZATION OF PEROVSKITE MIXED CRYSTALS LOUISIANA STATE UNIVERSITY	TEMPLE	N 36 15/09/89 \$177,065	SCHIOLER 89-NE-400	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PREPARATION AND PROPERTIES OF CERAMIC-METAL COMPOSITES COLORADO SCHOOL OF MINES	READEY DENNIS	N 37 15/02/89 \$511,333	SCHIOLER 89-NE-401	
IN THE DEGRADATION OF ELECTRICAL PROPERTIES OF SEMICONDUCTORS UNIV OF CONNECTICUT	GALLIGAN JAMES	N 36 15/09/89 \$239,295	SCHIOLER 89-NE-402	
PRESSURELESS SINTERING OF CERAMIC COMPOSITES UNIV OF NEW MEXICO	WEISER MARTIN	N 36 15/09/89 \$146,426	SCHIOLER 89-NE-403	
OPTICAL ANALYSIS OF SURFACE PROCESSES IN CHEMICAL VAPOR DEPOSITION STEVENS INSTITUTE OF TECHNOLOGY	WHITTAKER EDWARD	N 36 15/09/89 \$293,093	SCHIOLER 89-NE-404	
PRESSURELESS DENSIFICATION OF CERAMIC MATRIX COMPOSITES UNIV OF MISSOURI	RAHMAN MOHAMED	N 36 15/09/89 \$542,757	SCHIOLER 89-NE-405	
INHIBITING THE OXIDATION OF CARBON BY ELECTROCHEMICAL INTERCALATION OF BRIMINE	L. CHUNG DEBORAH	N 36 15/09/89 \$667,658	SCHIOLER 89-NE-406	
SUPERCOMPUTER TIME AT KIRTLAND AFB AIR FORCE WEAPONS LAB	KURT KURTH ALLEN	N 09 21/09/89 \$30,000	A SCHIOLER 89-NE-410	\$30,000 01/10/89 \$30,000
HIGH TEMPERATURE OXIDATION MECHANISMS AND KINETICS OF REFRACTORY CARBIDES JOHNS HOPKINS UNIVERSITY	BARGERON C.B.	N 36 27/09/89 \$127,600	SCHIOLER 89-NE-411	
SUPERCONDUCTING WEISSNER EFFECT BEARINGS FOR CRYSTALIC TURBOMACHINES CO2ARE INC. RESEARCH & DEVELOPMENT INC	VICTOR IANNELLO	N 24 10/07/89 \$495,994	A WEINSTOCK 89-NE-316	\$0 01/11/89 \$249,997

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MAGNETIC AND ELECTRIC PROPERTIES OF UNIQUE LIQUID AND SOLID COMPOSITES CLARKSON UNIVERSITY	ARAJS SIGURDS	N 36 07/08/89 \$240,843	D WEINSTOCK 89-NE-335	
MICROWAVE NONDESTRUCTIVE TESTING: A NUMERICAL AND EXPERIMENTAL EFFORT COLORADO STATE UNIVERSITY	ZOUGHI R.	N 12 16/08/89 \$61,438	D WEINSTOCK 89-NE-338	
STABILITY ANALYSIS OF PHASE-LOCKED STATES IN JOSEPHSON JUNCTION ARRAYS GEORGIA INSTITUTE OF TECH	WIESENFELD KURT	N 36 21/08/89 \$151,573	D WEINSTOCK 89-NE-341	
BASIC OPTICAL STUDIES OF HIGH TC OXIDE SUPERCONDUCTORS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CRESSELHAUS MILDRED	N 36 21/08/89 \$375,000	A WEINSTOCK 89-NE-344	\$125,000 15/01/90 \$375,000
STABILITY ANALYSIS OF PHASE-LOCKED STATES IN JOSEPHSON JUNCTION ARRAYS GEORGIA INSTITUTE OF TECH	WIESENFELD KURT	N 36 28/08/89 \$148,485	A WEINSTOCK 89-NE-350	
SYNTHESIS AND STUDY OF HIGH TC MATERIALS FOR SUPERCONDUCTING ELECTRONICS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	TEDRICK PAUL	N 36 31/08/89 \$404,998	A WEINSTOCK 39-NE-352	\$134,999 15/12/89 \$404,998
USE OF HIGH TC SUPERCONDUCTING MATERIALS IN MAGNETIC BEARINGS UNIV OF COLORADO	BARNES FRANK	N 36 13/09/89 \$620,332	D WEINSTOCK 89-NE-357	
PHYSICS AND TECHNIQUES FOR THE INVESTIGATION OF THE PROPERTIES OF ULTRA SMALL SYSTEMS CORNELL UNIVERSITY	PAPRIA J.	R 24 21/09/89 \$190,000	A WEINSTOCK 89-NE-409	\$100,000 15/01/90 \$190,000
QUASIPARTICAL JOSEPHSON OSCILLATOR UNIV OF ROCHESTER	WENGLER MICHAEL	N 36 25/09/89 \$3,000,000	A WEINSTOCK 89-NE-413	

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FEMTOSECOND CARRIER PROCESSES IN COMMUNIC SEMICONDUCTORS AND REAL TIME SIGNAL PROCESSING (CORNELL UNIVERSITY)	KRUSIUS J	R 36 05/07/89 \$1,849,930	WITT	89-NE-312
JOINT SERVICES ELECTRONICS PROGRAM SUPPORT OF THE BASIC RESEARCH PROGRAM AT THE ELECTRONICS RESEARCH LABORATORY UNIV OF CALIFORNIA HU	CHENMING	R 36 28/07/89 \$2,625,033	WITT	89-NE-330
ULTRAFAST CARRIER DYNAMICS IN III-V SEMICONDUCTORS MICROSTRUCTURES ALFRED	ROBERT	R 36 13/09/89 \$572,761	WITT	89-NE-361
CLASS E RECTIFIERS AND THEIR APPLICATIONS IN DC/DC CONVERTERS KAZIMIERCZUK	MARIAN	N 24 25/09/89 \$140,293	WITT	89-NE-411

TITLE TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER	PROPOSAL #	INITIATE START DATE	INITIATE START DATE
					TCT AMT	TCT AMT
13TH INTERNATIONAL BIOPHYSICS CONGRESS BIOPHYSICAL SOCIETY	EISENMAN GEORGE	N 12 10/07/89 \$10,000	BERRY	89-NL-299		
INTERNEURONAL INFORMATION PROCESSING	CARONER DANIEL	N 36 10/07/89 \$395,695	BERRY	89-NL-290		
DYNAMICS IN IN VIVO COPAMINE RELEASE	WIGHTMAN MARK	N 36 28/07/89 \$308,584	BERRY	89-NL-297		
CELLULAR & CELLULAR MECHANISMS OF ALCOHOL & ANESTHETICS	EMANUEL RUAIN	N 12 09/08/89 \$10,000	BERRY	89-NL-301		
EXTRATHALAMIC MODULATION OF CORTICAL RESPONSIVENESS	STEPHEN FOOTE	R 36 12/09/89 \$542,799	BERRY	89-NL-317		
TYROSINE, TRYPTOPHAN, AND PERFORMANCE	RICHARD WURTMAN	P 36 25/09/89 \$507,444	BERRY	89-NL-324		
EVALUATION OF HYPERBARIC OXYGEN THERAPY IN THE TREATMENT OF SPINAL CORD INJURY USING THE RABBIT SPINAL STROKE MODEL	CHARLES HARRISON	N 12 11/08/89 \$15,746	A CERVERNY	89-NL-303	\$15,746 30/09/89 \$15,746	
MICROORGANISMS FROM EXTREME ENVIRONMENTS TO DEGRADE HALOGENATED SOLVENTS	J.DAN COMBIE	N 24 25/09/89 \$201,460	CERVERNY	89-NL-321		
4TH INTERNATIONAL SYMPOSIUM ON BIOCLOGICAL REACTIVE INTERMEDIATES	GLENN SIPES	N 12 25/09/89 \$10,000	CERVERNY	89-NL-322		
UNIV OF ARIZONA						

TITLE INSTITUTE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TCT AMT
PRODUCTION OF REACTIVE OXYGEN SPECIES BY POLYHALOGENATED CYCLIC PYROPHORYLIC (PPC) DEPARTMENT OF UNIVERSITY	STUCHS	SIDNEY	N 36 25/09/89 \$297,095	CERVERY 89-NL-323
ISOMORPHISM VERSUS MISINTERPRETATIONS FORMAL VERSUS PSYCHOLOGI CAL STRUCTURE OF THE DECISION SPACE ISRAEL UNIVERSITY	ADAMS	MARILYN	N 36 07/07/89 \$335,781	FREGLY 89-NL-294
AUTOMATICITY AND CONTROL IN COGNITIVE PROCESSING ISRAEL UNIVERSITY OF THE NEGEV	TZELGGV	JOSEPH	R 36 07/07/89 \$105,650	FREGLY 89-NL-285
VISUAL PERCEPTION OF FEATURES AND OBJECTS UNIV OF CALIFORNIA	TREISMAN	ANNE	R 36 07/07/89 \$525,198	FREGLY 89-NL-287
PERCEPTIVE AND ATTENTIVE VISUAL INFORMATION PROCESSING JHU HOPKINS UNIVERSITY	EGERTH	HOWARD	R 48 07/07/89 \$507,443	FREGLY 89-NL-234
LEARNING FROM TEXT: A COGNITIVE CONTROL PERSPECTIVE WASHINGTON STATE UNIVERSITY	WHITEY	PAUL	N 36 27/07/89 \$223,677	FREGLY 89-NL-294
PROCESSING IN WORKING MEMORY COLUMBIA UNIVERSITY	COSHER	BARBARA	N 36 27/07/89 \$302,073	FREGLY 89-NL-235
UNIVERSAL EXECUTION FROM VARYING MEMORY SOURCES UNIV MASSACHUSETTS	ROSSENBAUM	DAVID	N 36 27/07/89 \$233,763	FREGLY 89-NL-296
ATTENTION TO THE SPREAD OF ATTENTION IN THE VISUAL FIELD UNIV OF PENNSYLVANIA	LAERGE	DAVID	N 36 31/07/89 \$297,083	FREGLY 89-NL-299

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TOWARDS AN INTEGRATION OF THE NON-INVASIVE METODOLOGIES OF COGNITIVE NEUROSCIENCE: THE ELEVENTH CARMEL WORKSHOP	CONCHIN	N 06 11/08/89 \$47,313	A FREGLY 89-NL-302	\$25,000 15/11/89 \$25,000
GUIDANCE OF HUMAN VISUAL ATTENTION BY PARALLEL PROCESSING MODULES	EMANUEL	N 36 11/08/89 \$425,673	FREGLY 89-NL-304	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	JEREMY WOLFE			
THEORY FOR LEARNING FROM EXAMPLES	RICHARD CATRAMBONE	N 24 11/09/89 \$107,723	FREGLY 89-NL-305	
TOWARD A UNIFIED CODING ACCOUNT OF COMPATIBILITY PHENOMENA	ROBERT PROCTOR	N 36 11/08/89 \$382,034	FREGLY 89-NL-306	
DECODING LETTERS AND OBJECTS: PRIMING, TIME COURSE, AND RELATIONAL FEATURES	THOMAS SANDOCKI	N 36 11/08/89 \$198,636	FREGLY 89-NL-307	
THE ROLE OF WORD FREQUENCY AND THE PROPER/COMMON DIMENSION IN SPEECH	DOUGLAS WHALEN	N 36 11/08/89 \$290,825	FREGLY 89-NL-308	
THE EFFECTS OF STRESS ON JUDGMENT AND DECISION MAKING IN DYNAMIC TASKS	KENNETH HANNICKO	N 24 25/08/89 \$360,342	FREGLY 89-NL-309	
THE FOURTEENTH INTERNATIONAL SYMPOSIUM ON ATTENTION AND PERFORMANCE: A SILVER JUBILEE	SYLVAN KORNBLUM	N 24 25/08/89 \$23,363	A FREGLY 89-NL-311	\$23,368 01/10/89 \$23,368
DIFFERENCE ON EYE MOVEMENTS AND VISUAL COGNITION	KEITH RAYNER	N 12 25/08/89 \$13,150	A FREGLY 89-NL-312	\$13,150 01/01/90 \$13,150

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NEURAL MECHANISMS MEDIATING VISUAL SELECTIVE ATTENTION LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	AINE	N 36 05/09/89 \$397,800	FREGLY	89-NL-316
COMMITTEE ON BASIC RESEARCH ON HUMAN FACTORS NATIONAL ACADEMY OF SCIENCES	VAN COTT	N 08 18/09/89 \$45,689	A FREGLY	\$45,689 01/02/90 \$92,645
SIGNAL-AND LISTENER-BASED FACTORS IN COMPLEX AUDITORY PATTERN PERC OPTICS, YALE UNIVERSITY	HAROLD ARTHUR SAMUEL	R 60 07/07/89 \$796,586	TANGNEY	89-NL-320
REFERENCE FRAMES IN VISION UNIV OF ROCHESTER	MARY	N 36 10/07/89 \$470,370	TANGNEY	89-NL-286
VISUAL PERCEPTION OF OBJECT MOTION DURING EYE AND SELFMOVEMENTS INSTITUTE FOR PERCEPTION RVG-TNC	WERTHEIM	N 36 10/07/89 \$144,000	TANGNEY	89-NL-291
COMPUTATIONAL MODEL OF AUDITORY PROCESSING LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	SINEK	N 36 28/07/89 \$411,442	TANGNEY	89-NL-292
DIGITAL THEORY OF AUDITORY PATT-RN RECOGNITION MARQUETTE UNIVERSITY	DONAL GUASTELLO	N 36 08/08/89 \$203,193	TANGNEY	89-NL-300
THE APPEARANCE OF TEMPORALLY-MODULATING AND STATIONARY STEREO PATT ERYS STATE UNIVERSITY OF NEW YORK - RSCH FCN	DAVIS	N 50 25/08/89 \$524,466	TANGNEY	89-NL-310
MECHANISMS OF SPATIAL LOCALIZATION FOR AIMED MOVEMENTS WASHINGTON UNIVERSITY	ABRAMS	N 60 01/09/89 \$435,896	RICHARD	89-NL-313

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INSTITUTION			AMOUNT	PROGRAM MANAGER	PROPOSAL #	
MECHANISMS OF VISUAL SURFACE FORMATION, MODULATION, AND PERCEPTION (CONTRIBUTION OF INFORMATION FROM THE MECHANISMS OF MOTION & STEREO HIV OF NEVAC)		THOMAS HARRINGTON	N \$1,709,442	N 60 01/09/89 TANGNEY	89-NL-314	
SUPPORT OF THE ACTIVITIES OF THE COMMITTEE ON HEARING, BIODACOUSTIC • ANC BIOMECHANICS OFFICE OF NAVAL RESEARCH	O'HARE JOHN		N \$30,000	N 12 01/09/89 TANGNEY	89-NL-315	
SUSTAINED ATTENTION IN MILITARY PERSONNEL DURING A COGNITIVELY DEM ANDING VIGILANCE TASK UNIV OF ALABAMA	TOMPCROWSKI PHILIP		N \$9,263	N 12 12/09/89 TANGNEY	89-NL-318	
WHAT GOVERNS THE PRECISION OF NEURAL COMPUTATIONS RESPONSIBLE FOR HUMAN SPATIAL DISCRIMINATIONS YALE UNIVERSITY SCHOOL OF MEDICINE	HIRSCH JOY		R \$734,031	R 36 12/09/89 TANGNEY	89-NL-319	

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EVALUATION OF BOOTSTRAP AND PARAMETRIC STATISTICAL ANALYSIS OF PERCENTILE CONTRASTS INDIANA UNIVERSITY-PURDUE UNIV AT INDIANAPOLIS RASMUSSEN JEFFREY	N 08 17/07/89 \$25,452	BAROUCH 89-NM-658		
NEW FREQUENCY DOMAIN APPROACHES FOR MODELLING SYSTEMS AND SIGNALS UNIV OF RHODE ISLAND KUMARESAN	N 36 17/07/89 \$217,151	BAROUCH 89-NM-659		
STATISTICAL TECHNIQUES FOR SIGNAL PROCESSING UNIV OF PENNSYLVANIA KASSAM	N 36 26/07/89 \$232,118	BAROUCH 89-NM-664	A	\$71,398 01/11/89 \$232,118
MECH-RELATED METHODOLOGIES FOR ESTIMATING MEASURES OF RELIABILITY/ MAINTAINABILITY AND RELIABILITY IOWA STATE UNIV OF SCIENCE AND TECH CAVIC	N 24 02/08/89 \$245,771	BAROUCH 89-NM-666		
COMPUTATION AND COMMUNICATION CONSTRAINTS FOR DISTRIBUTED ESTIMATION SYSTEMS UNIV OF WISCONSIN GUPNER	N 24 30/08/89 \$44,080	BAROUCH 89-NM-691		
DYNAMIC MODELING OF JOINT LIFETIMES, OF AGING NOTIONS, OF MARGINALIZABILITY AND OF MULTI-UNIT MINIMAL REPAIRS UNIV OF ARIZONA SHAKED	R 36 06/09/89 \$254,923	BAROUCH 89-NM-697		
INCREASING THE MARGIN OF STABILITY OF ARBITRARILY FINITE MODES OF FLEXIBLE LARGE SPACE STRUCTURES WITH CAMPING UNIV OF VIRGINIA LASIECKA	R 12 17/07/89 \$100,976	CROWLEY 89-NM-650		
ASYMPTOTICALLY EFFICIENT ADAPTIVE CONTROL OF STOCHASTIC SYSTEMS UNIV OF WISCONSIN AGRAWAL	N 24 17/07/89 \$1,00,270	CROWLEY 89-NM-654		
ADJUST OUTPUT FEEDBACK CONTROL OF NONLINEAR SYSTEMS MICHIGAN STATE UNIVERSITY KHALIL	N 24 08/08/89 \$153,902	CROWLEY 89-NM-671	0	

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GENERALIZED PREDICTIVE CONTROL OF NONLINEAR DYNAMIC SYSTEMS	UNIV OF CALIFORNIA HESS	RONALD	N 21/08/89 \$62,938	D	CROWLEY	89-NM-694	
GEOMETRY AND TOPOLOGY OF LINEAR SYSTEMS	UNIV OF ROCHESTER GUEST	MARTIN	N 06/09/89 \$88,559	D	CROWLEY	89-NM-694	
SIMING CONTROL: THEORY AND APPLICATIONS TO DYNAMIC CONTROL SPACE STRUCTURES	UNIV OF MICHIGAN MEERKOV	SEMYON	N 06/09/89 \$105,000	D	CROWLEY	89-NM-695	
DESIGNS AND ESTIMATORS FOR ADAPTIVE CONTROLLERS WITH ROBUST PERFORMANCE	SRIZCHA STATE UNIVERSITY TSAKALIS	KONSTANTINOS	N 06/09/89 \$282,006	D	CROWLEY	89-NM-696	
ESTIMATION OF COEFFICIENTS IN DISTRIBUTED PARAMETER SYSTEMS	TECHNISCHE UNIVERSITÄT OF GRAZ KUNISCH	KARL	N 25/09/89 \$57,571	D	CROWLEY	89-NM-710	
DISTRIBUTED TARGET DETECTION AND TRACKING	NORTHWESTERN UNIVERSITY HADDAD	ABRAHAM	R 25/09/89 \$370,367	D	CROWLEY	89-NM-717	
NEW TRENDS IN CONTROL SYSTEM DESIGN	UNIV OF MINNESOTA LEE	E.	N 27/09/89 \$10,000	D	CROWLEY	89-NM-717	
SOLVING DISCRETE OPTIMIZATION PROBLEMS USING INTERIOR POINT METHODS	UNIV OF PENNSYLVANIA ANADALINCAH	E.	N 17/07/89 \$124,281	D	GLASSMAN	89-NM-655	
GLOBAL SOLUTIONS TO EXPLICITLY AND IMPLICITLY DEFINED OPTIMIZATION PROBLEMS	UNIV OF WASHINGTON UNIVERSITY FALK	JAMES	N 24/07/89 \$284,737	D	GLASSMAN	89-NM-651	

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SPECIAL-CASE ALGORITHMS FOR RECTILINEAR STEINER MINIMAL TREES UNIV OF VIRGINIA COHOON J.		N 36 24/07/89 \$2,187,475	GLASSMAN 89-NM-662	
POLYHEDRAL APPROACHES FOR SOLVING 0-1 POLYNOMIAL PROGRAMMING PROBLEMS CLEMSON UNIVERSITY ADAMS	WARREN	N 36 08/08/89 \$205,332	GLASSMAN 89-NM-663	
COMBINATORIAL OPTIMIZATION BY LEARNING STOCHASTIC AUTOMATA UNIV OF MINNESOTA SHRAGGWITZ	EUGENE	N 36 08/08/89 \$245,213	GLASSMAN 89-NM-672	
STUDIES IN INTEGER PROGRAMMING AND MODELING SYSTEMS UNIV OF CALIFORNIA GEOFFRIAN	ARTHUR	N 12 08/08/89 \$15,974	GLASSMAN 89-NM-673	
METHODS AND CONVERGENCE ANALYSIS IN LARGE SCALE NONLINEAR OPTIMIZATION NATIONAL INST. OF STANDARDS & TECHNOLOGY UNIV OF ALASKA BOGGS	PAUL	N 12 09/08/89 \$41,000	GLASSMAN 89-NM-674	\$41,000 01/10/90 \$41,000
NU VADIS GRAPH THEORY AN ALASKA CONFERENCE ON THE FUTURE OF GRAPH THEORY UNIV OF ALASKA GIMBEL	JOHN	N 01 14/08/89 \$34,097	GLASSMAN 89-NM-676	\$15,000 01/01/90 \$15,000
PARALLEL AND LARGE-SCALE OPTIMIZATION GEORGE MASON UNIVERSITY NASH	STEPHEN	N 36 21/08/89 \$244,632	GLASSMAN 89-NM-680	
METHODS AND CONVERGENCE ANALYSIS IN LARGE SCALE NONLINEAR OPTIMIZATION UNIV OF NORTH CAROLINA TOLLE	JON	N 12 21/08/89 \$55,240	GLASSMAN 89-NM-681	\$55,240 01/01/90 \$55,240
EFFICIENT ALGORITHMIC TECHNIQUES FOR COMBINATORIAL PROBLEM (REVISED) PURPLE RESEARCH FOUNDATION Mikhail Atallah		N 36 21/08/89 \$281,959	GLASSMAN 89-NM-692	\$22,241 01/01/90 \$279,983

TITLE INSTITUTION	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SECOND ASILOMAR WORKSHOP ON PROGRESS IN MATHEMATICAL PROGRAMMING SOCIETY FOR INDUSTRIAL & APPLIED MATH BLOCK I.	N 01 25/08/89 \$15,000	A GLASSMAN 89-NM-689	\$15,000 01/12/89 \$15,000
THEORY AND METHODS FOR LINEAR PROGRAMMING BASED ON INTERIOR-POINTS AND CENTERING MASSACHUSETTS INSTITUTE OF TECHNOLOGY	N 24 30/08/89 \$202,246	A GLASSMAN 89-NM-673	\$86,347 01/01/90 \$84,347
NEW DIRECTIONS IN NETWORK FLOWS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	R 01 15/09/89 \$95,954	A GLASSMAN 89-NM-703	
GENETIC ALGORITHMS FOR HARD OPTIMIZATION PROBLEMS UNIV OF NORTH CAROLINA	N 24 21/09/89 \$130,590	A GLASSMAN 89-NM-706	
USING INTERIOR POINT METHODS IN A CUTTING PLANE APPROACH FOR SOLVING INTEGER PROGRAMMING PROBLEMS CENSOLEAER POLYTECHNIC INSTITUTE	N 36 21/C9/89 \$201,490	A GLASSMAN 89-NM-706	
THE PARALLEL COMPUTATION OF RECURRENCE EQUATIONS WITH AFFINE DEPENDENCIES YALE UNIVERSITY	N 36 14/08/89 \$286,192	HOLLAND 89-NM-677	
PARALLEL SOLUTION OF LARGE SYSTEMS OF EQUATIONS PENNSYLVANIA STATE UNIVERSITY	N 36 15/09/89 \$245,211	HOLLAND 89-NM-702	
EVENT ORIENTED DESIGN AND ADAPTIVE MULTITASKING TEMPLE UNIVERSITY SCHOOL OF MEDICINE	R 24 21/09/89 \$224,591	HOLLAND 89-NM-704	
CONFERENCE ON EXPERT SYSTEMS FOR NUMERICAL COMPUTING PURPLE RESEARCH FOUNDATION	N 12 25/C9/89 \$10,556	HOLLAND 89-NM-703	

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EFFICIENT NUMERICAL METHODS FOR INVERSE SCATTERING PROBLEMS OF GENERAL MAXWELL'S EQUATIONS	STATE UNIVERSITY OF NEW YORK	CHEN Y	N 24 12/07/89 \$216,031	NACHMAN 89-NM-649	
PLASTIC DEFORMATION OF GRANULAR MATERIAL	STATE UNIVERSITY OF NEW YORK	PITMAN E. BRUCE	N 36 17/07/89 \$64,369	NACHMAN 89-NM-652	\$20,284 01/01/90 \$64,369
RESEARCH IN THE MATHEMATICAL ASPECTS OF SCIENTIFIC COMPUTING	UNIV OF CHICAGO	CUPONY TODD	N 36 17/07/89 \$738,833	NACHMAN 89-NM-653	
COMPUTATIONAL FLUID DYNAMICS, MECHANICS AND MATHEMATICS AT THE UMA	HALL CHARLES		R 36 17/07/89 \$713,171	NACHMAN 89-NM-655	\$118,017 01/12/89 \$373,427
THEORETICAL AERODYNAMICS	KENNSYLAER POLYTECHNIC INSTITUTE	COLE JULIAN	R 12 17/07/89 \$80,496	NACHMAN 89-NM-657	\$90,496 01/11/89 \$90,496
NON-LINEAR MATHEMATICS APPLIED TO THE SCIENCE OF MATERIALS	CARNegie-MELLON UNIVERSITY	GURTIN MORTON	N 36 24/07/89 \$971,357	NACHMAN 89-NM-650	
SYSTEM IDENTIFICATION AND FILTERING OF NONLINEAR CONTROLLED MARKOV PROCESSES BY CANONICAL VARIATE ANALYSIS	BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	LARIMORE WALLACE	R 24 02/08/89 \$465,327	NACHMAN 99-NM-665	
SOME TOPICS IN SOLITON MATHEMATICS, TRANSPOSITION & INVERSE PROBLEMS	U.I.V.-ILLINOIS	CARRILL ROBERT	N 36 02/08/89 \$115,859	NACHMAN 89-NM-667	
TECHNIQUES USED TO IDENTIFY INSTABILITIES IN LINEAR WAVE PROPAGATION PROBLEMS	CLAREMONT GRADUATE SCHOOL	CUMBERBATCH ELLIS	N 14 08/08/89 \$84,748	NACHMAN 89-NM-670	

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM PROPOSAL #	INITIATE START DATE TOT AMT
FORMATION AND STATISTICAL DESCRIPTION OF THREE-DIMENSIONAL SINGULARITIES IN TURBULENT FLOWS UNIV OF CALIFORNIA, SAN DIEGO NOVIKOV	EVGENY	N 08/C8/99 \$454,732	NACHMAN 89-NM-675	\$111,633 30/12/89
MULTIVARIABLE CONTROL FOR FLEXIBLE IC PROCESSING STANFORD UNIVERSITY KAILAT	THOMAS	N 33 21/08/89 \$500,000	NACHMAN A 89-NM-679	\$1,356,143
INVERSE SCATTERING: THEORY AND APPLICATIONS NORTHWESTERN UNIVERSITY DEVANER	ANTHONY	N 36 21/08/89 \$375,667	NACHMAN A 89-NM-693	
CENTER FOR ANALYSIS OF HETEROGENEOUS AND NONLINEAR MEDIA NEW YORK UNIVERSITY JOHN	ROBERT	R 36 22/C8/99 \$150,000	NACHMAN A 89-NM-696	\$500,000 01/01/90 \$1,500,000
NONLINEAR OPTICS AND TURBULENCE UNIV OF ARIZONA NEWELL	ALAN	N 36 24/08/89 \$1,667,729	NACHMAN A 89-NM-697	\$500,000 01/10/89 \$1,500,000
ACCELERATION OF CHEBYSHEV SPECTRAL APPROXIMATIONS OF HYPERBOLIC EQUATIONS TO STEADY STATE FLUIDICA AT E UNIVERSITY DAVIV	KOPRIVA	N 24 24/C8/99 \$82,753	NACHMAN A 89-NM-698	
RAY TR SUPPORT FOR OTHER 2204/A3 INSTRUMENTS AIR FORCE WEAPONS LAB BURNETTE	HOWARD	N 01 29/09/89 \$10,000	NACHMAN A 89-NM-690	\$10,000 01/10/89 \$10,000
IN THE TURBULENT DYNAMICS GEORGIA TECH RESEARCH CORPORATION FOX	RONALD	N 36 30/08/89 \$168,452	NACHMAN A 89-NM-692	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: CALCULATION OF THE PROBABILITY OF UNDETECTED ERROR FOR CERTAIN ERROR DETECTION CODES QUALCOMM, I.C. ANDREW		N 12 06/09/89 \$157,761	NACHMAN A 89-NM-698	\$76,000 01/12/89 \$157,761

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS	PROGRAM MANAGER	INITIATE START DATE	TCY AMT
THE ASYMPTOTIC THEORY OF THE REFLECTION AND TRANSMISSION OF A FULL-SIZE ELECTROMAGNETIC BEAM FIELD AT A PLANAR INTERFACE SEPARATING DUGHSTUN	KURT		R 05 21/09/89 \$43,713	A	NACHMAN		
SPARSE MATRIX ALGORITHMS FOR PARALLEL COMPUTERS			R 36 25/09/89 \$240,679	N	NACHMAN	89-NM-707	
PENNSYLVANIA STATE UNIVERSITY	POTHEN	ALEX					
TELELECTRIC FUNCTIONS AND THE ELECTROMAGNETIC WAVE PROPAGATION IN STATICARY AND MOVING DISPERSIVE MEDIA	CEFACIO	BRIAN	R 12 25/09/89 \$43,713	N	NACHMAN	89-NM-713	
VALIDATION-BASED LANGUAGE FOR EXPERT SYSTEMS	SHENGY	PRakash					
UNIV OF KANSAS							
ADDITIONAL APPROXIMATE QUERY PROCESSING	LIU	JANE	N 24 17/07/89 \$133,389	N	WAKSMAN	89-NM-651	
UNIV OF ILLINOIS							
CONFERENCE ON THEORETICAL ASPECTS OF REASONING ABOUT KNOWLEDGE	VARDI	MOSHE	N 36 08/08/89 \$255,734	N	WAKSMAN	39-NM-663	
IBM ALMADEA RESEARCH CENTER							
FURPOSE-DRIVEN ANALYTICAL LEARNING	ADELSON	BETH	N 01 14/08/89 \$23,500	N	WAKSMAN	89-NM-678	
TUFTS UNIVERSITY							
COMPUTER AND MATHEMATICAL MODELLING OF MASSIVELY PARALLEL ARCHITECTURES FOR SELF-ORGANIZING NEURAL PATTERN RECOGNITION MACINES	GROSSBERG	STEVEN	R 24 08/09/89 \$114,390	A	WAKSMAN	89-NM-699	\$100,000 01/01/90 \$210,000
REPLICATED CONTROL ALGORITHMS IN DISTRIBUTED DATABASES							
UNIV OF TENNESSEE	MUTCHLER	DAVID	N 36 15/09/89 \$184,936	N	WAKSMAN	89-NM-701	

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TITLE (CONT.)	RECEIVED	PROGRAM MANAGER	START DATE
INSTITUTION	AMOUNT	PROPOSAL #	END AMT
INDUCTIVE LEARNING OF DECISION RULES FROM EXAMPLES	N 24	WAKSMAN	
UNIV OF NCRTF CAROLINA	21/09/89 \$125,495		
SYSTEMS ANALYSIS	N 03	WAKSMAN	
LOUISIANA STATE UNIVERSITY	25/09/89 \$23,212		
PROJECT RECOGNITION IN RANGE IMAGES USING CAD DATABASES	N 24	WAKSMAN	
UNIV OF MICHIGAN	27/09/89 \$367,224		
JAIN	KAMESH	99-NP-716	

TITLE INSTITUTION	INVESTIGATOR	INITIATE START DATE TOT AMT			TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #
BASIC STUDIES IN PLASMA PHYSICS: STATISTICAL MECHANICS OF EQUILIBRIUM/NEQUIILIBRIUM PHENOMENA IN INTERACTING COULOMB SYSTEMS POTTERS - THE STATE UNIVERSITY	JOEL	R	24 13/07/89 \$195,145	A BARKER 89-NP-210	\$35,332 01/11/89 \$135,145	
COMPETITION BETWEEN ELECTROMAGNETIC MODES IN A FREE-ELECTRON MASER UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	ALAI	N	36 15/08/89 \$160,635	BARKER 89-NP-215		
NUCLEAR METHODS OF ACCELERATION CORNELL UNIVERSITY	NATION	R	12 16/08/89 \$210,000	BARKER 89-NP-216		
INVESTIGATION OF A RELATIVISTIC KLYSTRON TEXAS TECH UNIVERSITY	ZIEHEER	N	48 18/08/99 \$952,300	BARKER 89-NP-219		
LASER SWITCHED POWER LINAC UNIV OF ROCHESTER	MELISSINCS	R	12 13/09/99 \$101,000	A BARKER 89-NP-221	\$101,000 01/01/90 \$101,000	
COMPUTER SIMULATION OF ALFVENIC WINGS IN CONNECTED PLASMAS ACROSS MAGNETIZED PLASMAS UNIV OF NEW MEXICO	GALVEZ	N	12 23/08/89 \$56,470	BARKER 89-NP-229		
THEORETICAL RESEARCH ON A PLASMA CERENKOV RADIATION SOURCE KRALL ASSOCIATES	KRALL	N	12 30/08/89 \$92,531	BARKER 89-NP-231		
CATHODE SURFACE ANALYSIS USING RAMAN SPECTROSCOPY UNIV OF UTAH	GROW	N	36 31/08/89 \$379,753	BARKER 39-NP-232		
MICROWAVE INTERACTIONS WITH PLASMAS ECKSTROM INTERNATIONAL	ECKSTROM	N	24 22/09/89 \$299,960	BARKER 89-NP-241		

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LABORATORY EXPERIMENTS TO SIMULATE BREMSSCHWANG ABSORPTION OF RADIOWAVES IN SPACE	LEE	NIN-CHANG	N 12 22/09/89 \$75,000	BARKER	89-NP-242		
COMPUTER SIMULATION OF COLLECTIVE ION ACCELERATION BY A RELATIVISTIC ELECTRON BEAM	MIGUEL SALVEZ	NIN-CHANG	N 12 22/C9/89 \$61,471	BARKER	89-NP-243		
TOPICAL CONFERENCE ON RESEARCH TRENDS IN NON-LINEAR & RELATIVITY EFFECTS IN PLASMAS	STEFAN VLADISLAV	NIN-CHANG	N 12 22/09/89 \$3,000	BARKER	89-NP-244		
UV LASER COCLLING AND TRAPPING OF ATOMS	THOMAS	NIN-CHANG	N 36 26/07/93 \$139,400	KELLEY	39-NP-212		
NATIONAL INST. OF STANDARDS & TECHNOLOGY	LUCAYORTC	NIN-CHANG	N 12 10/08/89 \$30,000	KELLEY	4 39-NP-214	\$90,000 01/10/89 \$30,000	
MODELLING THE EXCITATION OF MACROSCOPIC OSCILLATIONS IN F- SOURCE PLASMAS (LAND)	RICHARD GERWIN (LANL)	NIN-CHANG	N 12 10/08/89 \$30,000	KELLEY	4 39-NP-214	\$90,000 01/10/89 \$30,000	
CALCULATION & HALF COLLISION ANALYSIS OF STATE-TC-STATE CROSS SECTIONS IN JETOMIC COLLISIONS	PAUL JULIENNE	NIN-CHANG	N 12 18/08/89 \$115,000	KELLEY	A 89-NP-220	\$115,000 01/10/89 \$115,000	
JET-ENERGY CHIIGNER THRESHOLD LAW) AND LOW-ENERGY ELECTRON ATTACHMENT PHENOMENA	CHUTJIAN ARA	NIN-CHANG	N 36 18/08/89 \$276,100	KELLEY	A 69-NP-222		
MOLECULAR INTERACTIONS AND PROPERTIES WITH MANY-BODY METHODS	RODNEY SARTLETT	NIN-CHANG	N 12 23/08/89 \$132,420	KELLEY	A 89-NP-223	\$132,420 01/12/89 \$132,420	
ULTRAVIOLET EMISSION CROSS SECTIONS BY ELECTRON AND PROTON IMPACT	JOSEPH AJELLO	NIN-CHANG	N 12 23/C8/89 \$115,700	KELLEY	A 89-NP-224	\$115,700 01/10/89 \$115,700	
UV OF FLUORESC							

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FORMATION & ENHANCEMENT OF H(-) IONS IN A MAGNETICALLY FILTERED MULTI-CUSP ION SOURCE/MEASUREMENT OF NEUTRAL ATOMIC/MOLECULAR..... LEING LAWRENCE BERKELEY LABORATORY	KA-NGO	N 12 24/08/89 \$204,326	A KELLEY 89-NP-225	\$204,326 01/10/89 \$204,326
NEGATIVE ION SOURCE RESEARCH PROGRAM LAWRENCE LIVERMORE LAB (CALIF UNIV)	HISKES	N 12 24/08/89 \$30,000	A KELLEY 89-NP-226	\$30,000 01/10/89 \$30,000
ELECTRON IMPACT IONIZATION AND ATTACHMENT STUDIES OF MOLECULES OF INTEREST TO PLASMA POWER TECHNOLOGY ET FRUSTRATION LABORATORY	SRIVASTAVA	N 12 25/08/89 \$75,000	A KELLEY 89-NP-227	\$75,000 01/12/89 \$75,000
AT TACDEM MICROWAVE-DRIVEN CUSP NEGATIVE ICN SOURCE UNIV OF CALIFORNIA	MORSE	R 12 29/08/89 \$54,000	A KELLEY 89-NP-230	
NEGA: ION SOURCE RESEARCH PROGRAM LAWRENCE LIVERMORE LAB (CALIF UNIV)	HISKES	N 9 12/09/89 \$105,000	A KELLEY 89-NP-239	\$105,000 01/07/90 \$105,000
THE POLARIZATION AND MAGNETOMETRY HARVARD UNIVERSITY	CHUPP	N 24 22/09/89 \$571,390	A KELLEY 89-NP-245	
PROVIDE COMPUTING SUPPORT ON WLCRAY SUPERCOMPUTER TO AFCSR CONTRACTOR, CR HARVEY MICHAELS, UNITED TECHNOLOGY RESEARCH CENTER AIR FORCE WEAPONS LAB	HOWARD	N 12 27/C9/89 \$1C,000	A KELLEY 89-NP-246	\$10,000 01/10/89 \$10,000
INVESTIGATION OF CRUSTAL DEFORMATION IN THE VICINITY OF VANDENBERG AIR FORCE BASE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	KING	N 36 01/C9/89 \$473,770	A PERRIZO 89-NP-233	\$10,000 01/09/89 \$10,000
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS AND RESOURCES (COMMITTEE ON SEISMOLOGY) NATIONAL ACADEMY OF SCIENCES	LONG	N 12 11/09/89 \$15,000	A PERRIZO 89-NP-237	

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COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES (COMMITTEE ON GEODESY)	NATIONAL ACADEMY OF SCIENCES	LONG ROBERT	N 09 11/09/89 \$15,000	PERRIZO	
INHIBITING THE PHOTOCGRADATION OF LASER EYES BY MOLECULAR EN. SULATION	UNIVERSITY LAWARDY	N. M.	N 12 13/07/89 \$145,687	SCHLOSSBER 89-NP-211	
RESEARCH SUPPORT FOR THE LABORATORY FOR LIGHTWAVE TECHNOLOGY ERICKSON UNIVERSITY	MORSE T. F.		N 36 27/07/89 \$640,200	SCHLOSSBER 89-NP-213	\$185,000 01/01/90 \$555,000
GENERATION OF COHERENT ACOUSTIC WAVES IN THE THZ RANGE UNIV OF NEW MEXICO	EIELS JEAN-CLAUDE		N 36 16/08/89 \$346,630	SCHLOSSBER 89-NP-217	
SYNTHETIC NONLINEAR MEDIA FOR OPTICAL FREQUENCY CONVERSION STANFORD UNIVERSITY	FEJER MARTIN		N 36 18/08/89 \$759,203	SCHLOSSBER 89-NP-218	
RESEARCH STUDIES ON EXTREME ULTRAVIOLET AND SOFT X-RAY LASERS STANFORD UNIVERSITY	HARRIS STEPHEN		R 24 29/08/89 \$215,390	SCHLOSSBER 89-NP-228	
LABORATORY FOR X-RAY OPTICS UNIV OF ARIZONA	FALCC CHARLES		N 36 01/09/89 \$1,-55,000	SCHLOSSBER 89-NP-234	\$215,000 01/10/89 \$702,000
HIGH PRECISION SOFT X-RAY OPTICS LAWRENCE BERKELEY LABORATORY	ATTWODGE DAVID		N 06 14/09/89 \$17,500	SCHLOSSBER 89-NP-240	\$17,550 15/09/89 \$17,550